



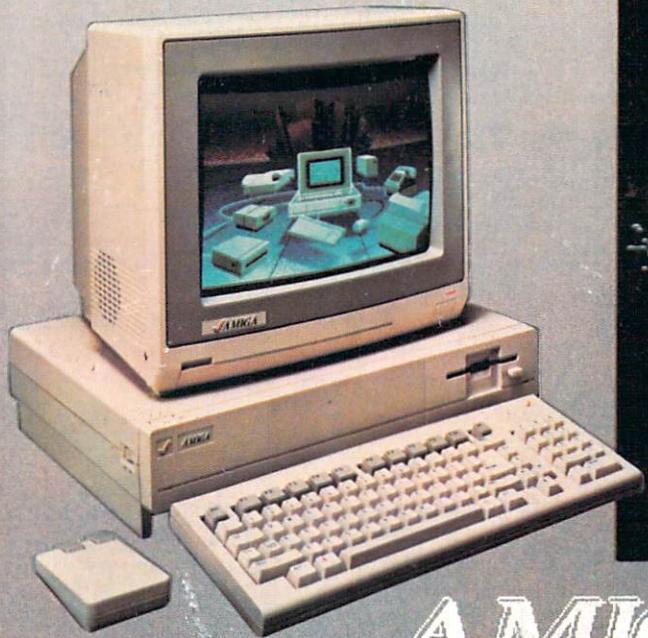
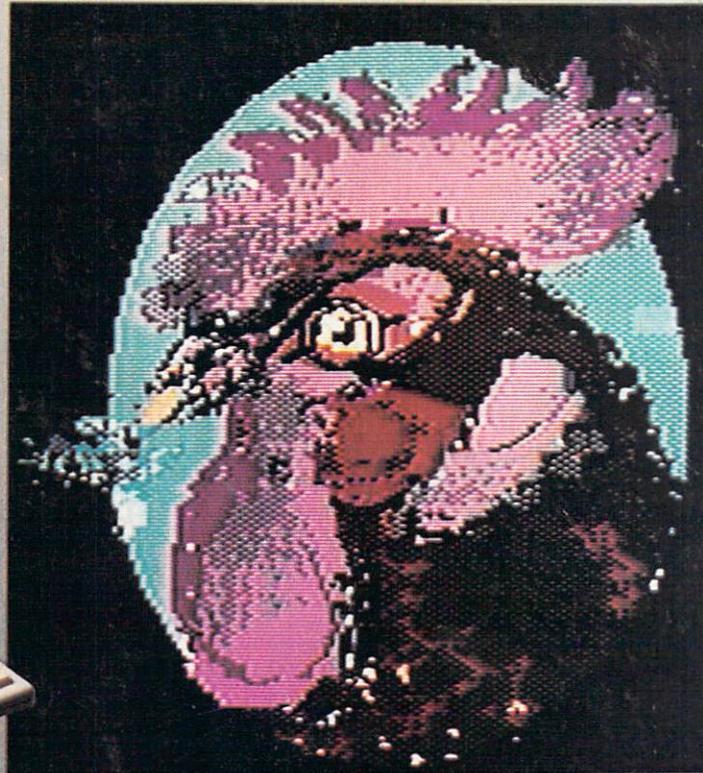
THE USEFUL GUIDE TO COMMODORE COMPUTING!



PRODUCT ROUNDUP

Buyers' Guide to over 1200 products for your Commodore computer. Includes C128 & Amiga!

GRAPHICS CONTEST WINNERS!



AMIGA!

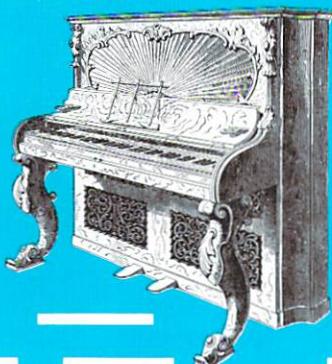
Commodore redefines personal computing!



WIN A COMPUTER!
DETAILS INSIDE!

PIANO ROLLS PLAYED ON A MIDI INSTRUMENT

ARE YOU KIDDING?!!!



NOW YOU CAN TURN YOUR HOME COMPUTER INTO AN ENTERTAINMENT CENTER AND MUSIC EDUCATION MACHINE.

QRS has taken the experience of 85 years in the music business and made a transition into the high tech future. The appearance of the MIDI on home organs and synthesizers opens up a whole new future for music. The QRS player piano rolls from 1900 to present day were performed by great artists from Scott Joplin, Fats Waller, and George Gershwin to Liberace, Peter Nero, and other contemporary artists. Most of this library of over 10,000 songs has been converted to digital signals and placed on floppy disks that are available for popular microcomputers. The microcomputer will now extend musical entertainment for home, school, and commercial use. In addition, QRS has developed inexpensive MIDI interfaces and cables that link computer and keyboard.

THE COMMODORE VERSION IS NOW AVAILABLE FOR ONLY \$49.95. THE PACKAGE INCLUDES A MIDI INTERFACE AND A SIX SONG SAMPLE DISK WITH CLASSICAL, CONTEMPORARY, SHOW MUSIC, and even Rhapsody in Blue played by the author GEORGE GERSHWIN that you can enjoy with your MIDI equipped instrument.* For more information about other supported computers and MIDI cables call or write:

Q·R·S

1026 Niagra Street
Buffalo, New York 14213

(201) 838-5606



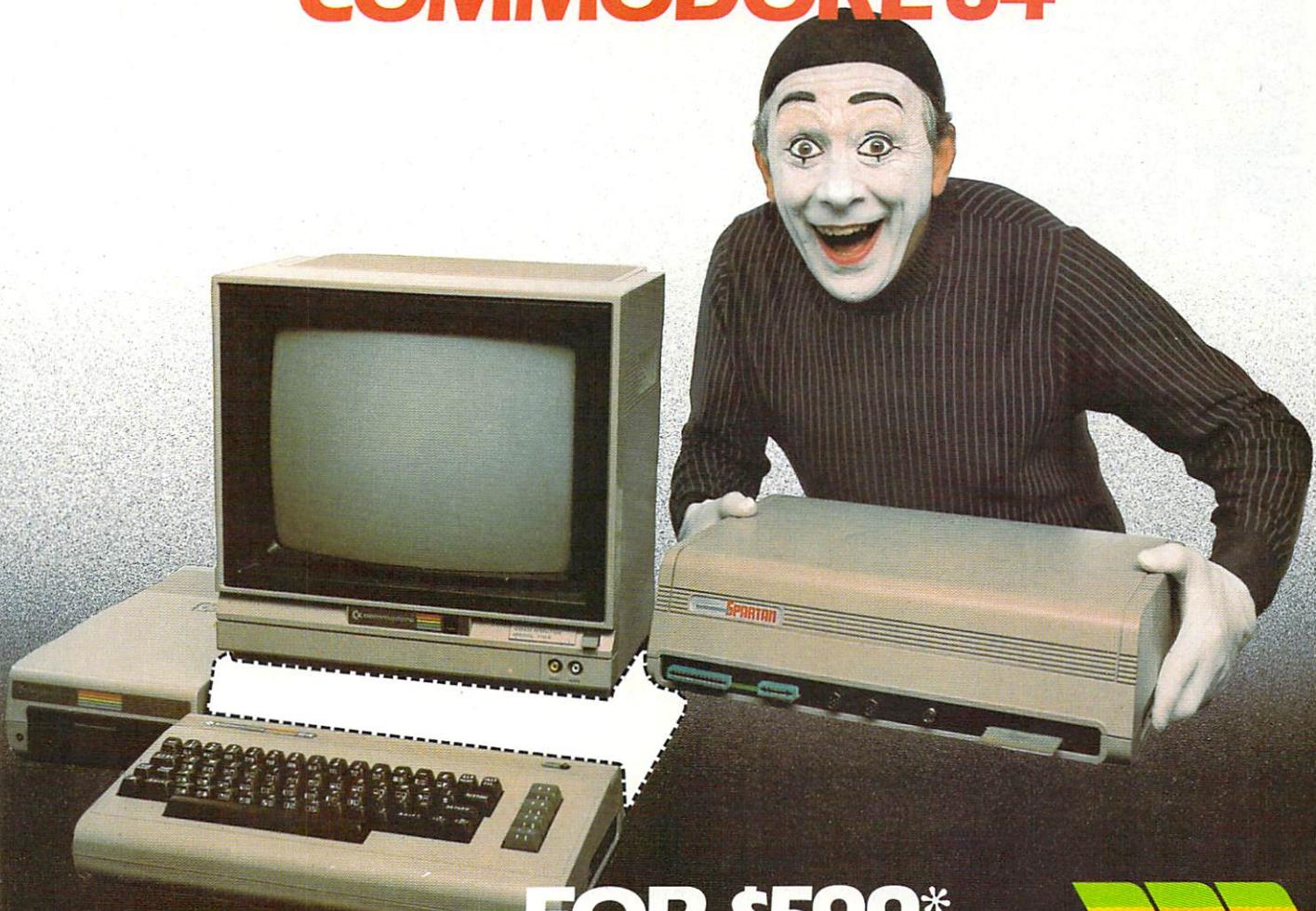
**Micro-W.
DISTRIBUTING, INC.**

1342B Route 23
Butler, New Jersey 07405

Dealer & Distributor Inquiries Invited

*For best performance an eight voice polyphonic instrument is required.
Commodore is a registered trademark of Commodore Business Machines Inc.

HOW TO GET OVER \$2000 WORTH OF NEW CAPABILITIES FOR YOUR COMMODORE 64™

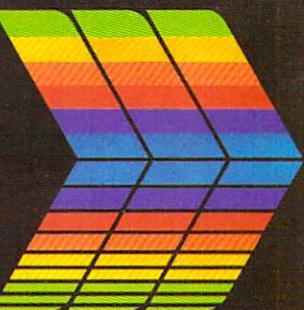


FOR \$599*

The Spartan™ is the Apple™ II+ emulator for your Commodore 64™ that will open up a whole new world of hardware and software for you! Imagine adding these features to your Commodore 64™ for the Spartan™ price of \$599: Apple™ II+ hardware and software capabilities 64K RAM expansion four

software selectable Commodore 64™ cartridge slots non-dedicated 8-bit parallel port standard audio cassette deck capabilities for your C-64™.

The suggested retail value of comparable products offering only these capabilities is over \$2200.00* — but the Spartan™ gives you much, much more! By building on your investment in your Commodore 64™ — an excellent introductory computer — you create a whole new system with both C-64™ and Apple™ II+ capabilities. There is a whole other world out there! The huge selection of Apple™ II+ hardware and software is now yours to explore! Call toll free for the Spartan™ dealer nearest you.



MIMIC

FOR INFORMATION WRITE:
MIMIC SYSTEMS INC.
1112 FORT ST., FL. 6E
VICTORIA, B.C.
CANADA V8V 4V2

TO ORDER CALL:

1-800-MODULAR
(663-8527)

*All prices quoted are in U.S. funds, freight and taxes not included. Value of components equivalent to the Spartan™ system are quoted from Apple™ II+ CPU and Apple™ II+ single disk drive 1983 list prices, and from current suggested list prices and component specifications of other peripheral manufacturers. Commodore 64™ and Commodore logo are trademarks of Commodore Electronics Ltd. and/or Commodore Business Machines, Inc. Apple™ II+ is a trademark of Apple Computer Inc. Spartan™ is a trademark of Mimic Systems Inc. and has no association with Commodore Electronics or Apple Computer Inc. The Spartan™ is manufactured by Mimic Systems Inc. under license granted by ATG Electronics Inc. of Victoria, B.C. Canada.



the USEFUL guide to
Commodore Computing



Benn Dunnington

Publisher / Managing Editor /
Photos / Covers / Reviews
Production / Accounting / art
ist Illustrator / Lead Vocals

Mark R. Brown

Senior Editor / Tech. Editor
Features / Reviews / Photos
2nd Illustrator / Collections
Backup Phones / Percussion

Marty Amorin

Data Manager / Reviews / Mail
Archives / Special Assignments
Trouble-shooting / Keyboards



Advertising Sales

INFO Publications, Advertising
Attn: Cel Dunnington
2343 Dubuque Road
Iowa City, IA 52240
(319) 338-3620

INFO is published bi-monthly
by INFO Publications, Inc. for
Commodore computer users.
INFO is not affiliated with
Commodore Electronics Ltd.
Commodore 64, PET, CBM, VIC
Commodore 128, and AMIGA are
trademarks of Commodore
Electronics, Ltd.

Dealers: If you are
interested in carrying INFO in
your store, contact:
INFO sales: (319) 338-0070

Readers: We like to get
your letters, and do read all
mail. Please do not phone! We
have 50,000 readers & 1 phone!

INFO Reader Mail
PO Box 2300
Iowa City, IA 52244

COPYRIGHT © BY:
INFO PUBLICATIONS INC.
1985
ALL RIGHTS RESERVED

Products used to
Produce this issue
of **INFO** include:

COMPUTEREYES™
by:

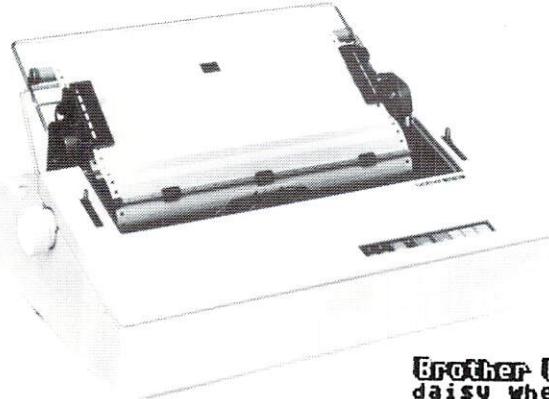
DIGITAL VISION



Superbase

Flexidraw™

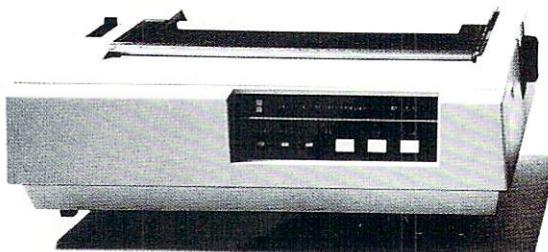
INKWELL SYSTEMS



Brother HR-35
daisy wheel



Star SR-15
dot matrix



C.Rich M-8510
dot matrix



INFO

CONTENTS #8 Sept/Oct 1985

DEPARTMENTS

GALLERY (Exclusive color screen shots of new AMIGA software).....	6
EDITOR'S PAGE.....	7
READER MAIL.....	8
NEWS & VIEWS.....	13
SOUND ADVICE (Network Wars).....	15

FEATURES

GRAPHICS CONTEST WINNERS (Sensational art from talented INFO readers!)..	4
AMIGA IN PICTURES (6-page eye-full).....	16
AMIGA VS IBM (No Contest).....	22
AMIGA- THINGS TO LOVE (& things we'd love to see).....	24
AMIGA QUOTES: THE GOOD, THE BAD, THE UGLY.....	28
READER ROUNDUP BALLOT (Your chance to contribute to the Product Roundup)	34
PRODUCT ROUNDUP (Over 1200 products for the C64, C128, CP/M, & AMIGA !) ..	35
VENDOR INDEX (A guide to who makes those 1200+ products).....	128

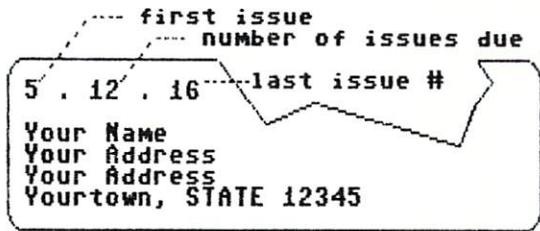
ETC.

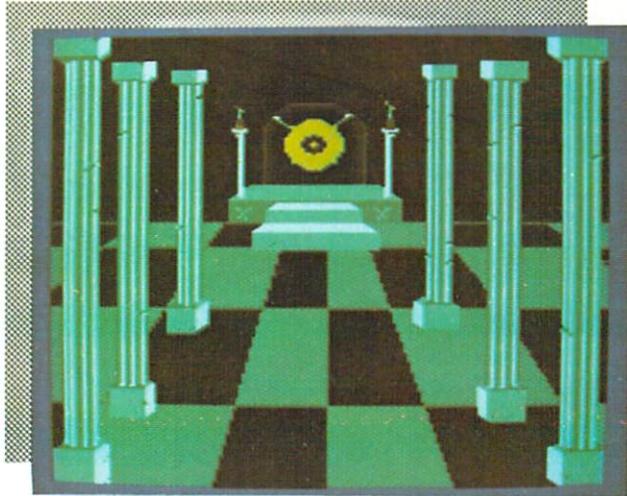
BRIAN REDMAN (computer humor).....	12
GIANT READER SURVEY (Let INFO & Mfctr. know where you stand !).....	CF
CONTEST (The national most outrageous computer-room search!).....	135
DEALER INDEX (Where to find INFO in your area).....	148
SUBSCRIPTION FORM (Or use the removable centerfold envelope.).....	153
ADVERTISER INDEX.....	155

SUBSCRIBERS:

Please note: for some of you, #8 is the last issue on your current subscription. Here's how to read your mailing label:

If this is your last issue, and you want to renew, please send us your mailing label in the subscription envelope & clearly mark it "RENEWAL" with your check





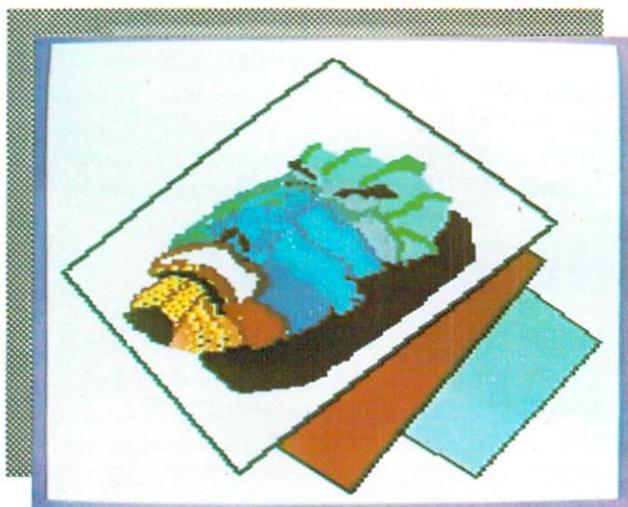
COLUMNS



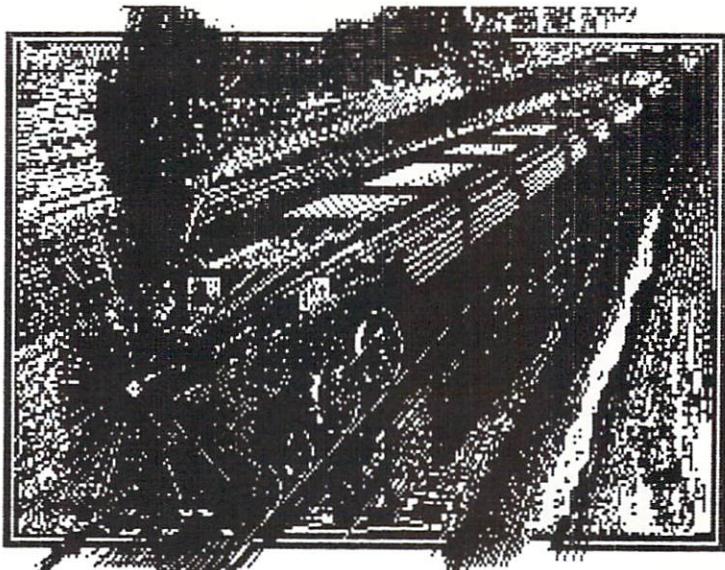
KNARDS

TIED FOR SECOND

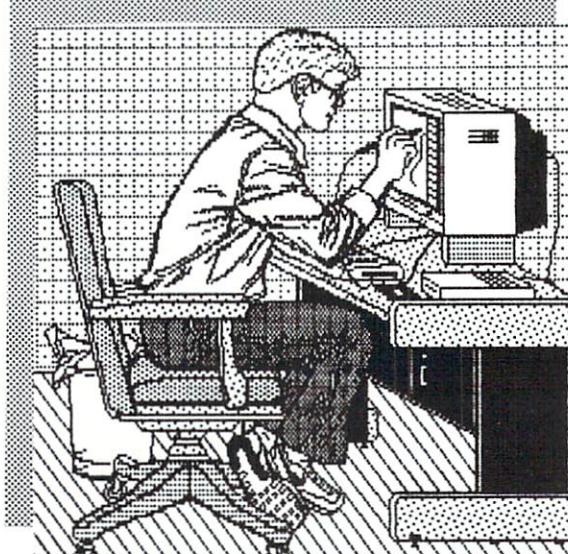
Columns by: Gary Herbst	Koala Painter	age:19
Crestwood, MO		
Knards by: Carl Olsen	Koala Painter	age:15
Vashon, WA		
Floating Face by: Karsten Lorentzen	Koala Painter	age:15
Vashon, WA		
Self Portrait by: Peter T. Hughes	FlexiDraw	age:23
Canton, MA		
NightTrain by: Alan Cain	Doodle	age:34
Springfield, MO		



FLOATING FACE



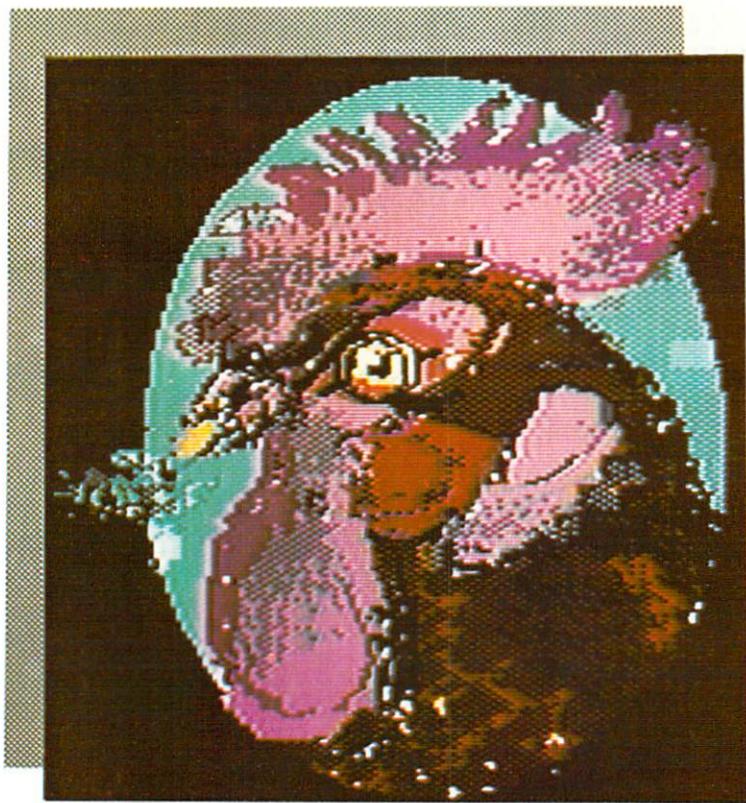
NIGHTTRAIN



SELF-PORTRAIT



THE WINNER IS...



DE-BUGGER

by: Lewis Tilley Age: 64
of: Parrott, Georgia
using: Animation Station



INFO GRAPHICS CONTEST

We received many excellent entries from all over the country, and had one heck of a time picking the winners! Thanks to all of you who sent us your work. We got a lot of Garfield's and other cartoon characters which we had to rule out for copyright reasons. We also got some great nudes which were appreciated but also ruled out. If you didn't win, don't be discouraged- we will be doing this again.

←honorable mention: James Murphy
FlexiDraw / age: 23
Chanhassen MN

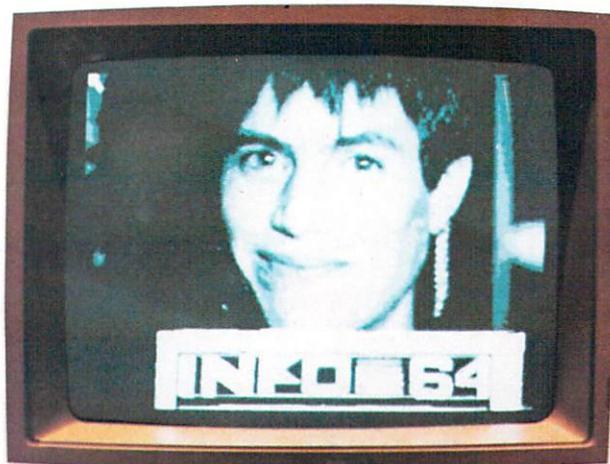


INFO

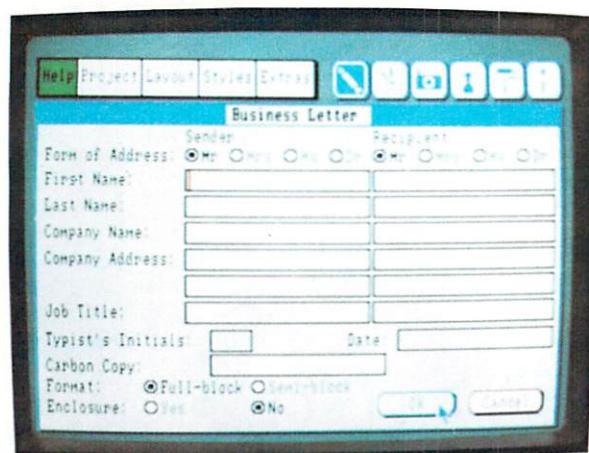


AMIGA!

GALLERY



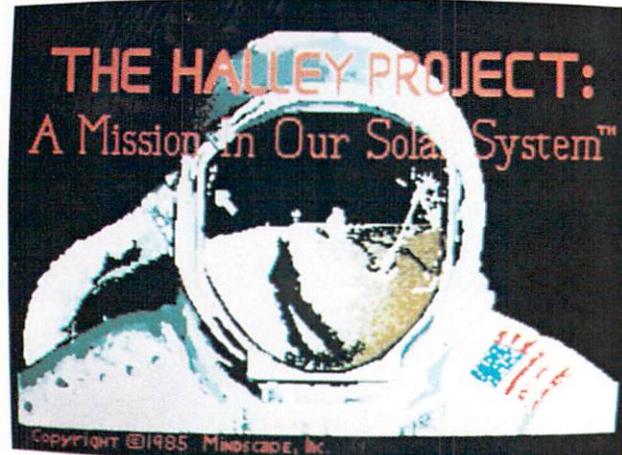
THE AMIGA EYE
A-Squared



TEXTCRAFT
Arktronics

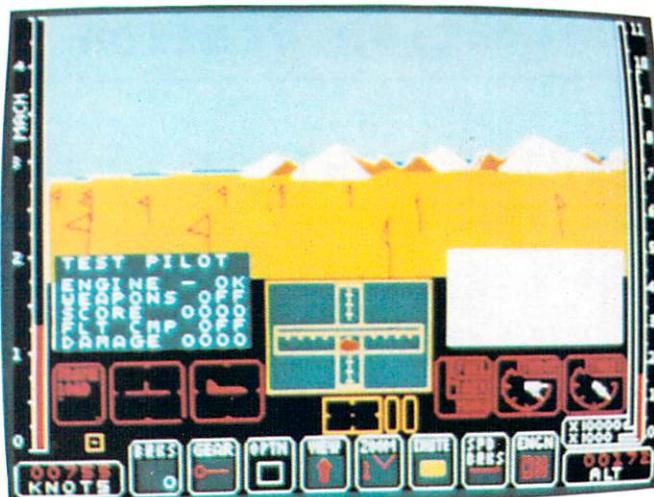


ARCHON
Electronic Arts



COPYRIGHT ©1985 Mindscape, Inc.

the HALLEY PROJECT
Mindscape



RADAR RAIDERS
Sublogic



MARBLE MADNESS
Electronic Arts



EDITOR'S PAGE
- Benn Dunnington



Welcome to the first issue of **INFO!** We continue to grow, to change, to evolve, to be behind schedule. As always we hope that this issue will have something to delight or stimulate **Commodore** enthusiasts of all persuasions. We have exclusive photos, controversy, humor, valuable reference material, group participation features, user-generated works of art, brash predictions, deep insightful articles, golden prose, and much much more. We feel that this is the best issue of **INFO** ever, with better things yet to come.

You will also notice our cover price and subscription rates have jumped up considerably. With our knack for knocking off advertisers with blunt and critical commentary and reviews (when deserved) we find that we must actually make a profit with issue sales (something most magazines never dream of). We have also increased our size, color, number of illustrations, and paper quality (all extra costs). We are hoping that you feel, as we do, that quality and integrity are worth the extra 65 cents per issue. I'm sure you'll let us know if you disagree.

Speaking of "letting us know"; we have included a reader survey form in Issue #8 (in place of the usual Erg-Card) which we hope you will take the time to fill out and mail (Erg-Cards on card-stock will return here next issue.) We hope the information gained will not only be of interest to our readers (what IS the most popular wordprocessor), but will help us effectively communicate your views and positions to **Commodore** and to third party vendors. The survey will also allow us to show potential advertisers what kind of clout our readership represents; which should in turn result in improved advertising input (which will help us hold or even reduce our cover price in the future.).

While we've got you filling in blanks, you may want to note the Reader Consensus Ballot on page 34 which allows readers to participate in the rating and review process for the next product roundup issue.

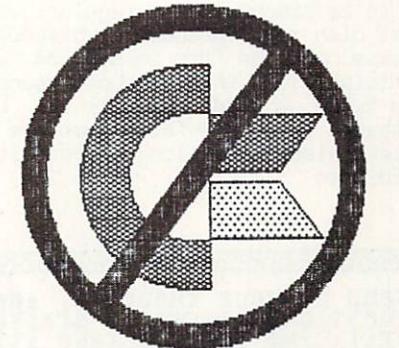
A word about our schedule, and subscriptions: We intend to make every third issue of **INFO** a Product Roundup issue (like this one). If we can get tight on our bi-monthly frequency, that will mean 2 roundups per year (one every six months). Regardless of our success at regularity, you will always get the total number of issues you have subscribed for (ie: a 2 yr. subscription gets you 12 issues, even if it should take longer than 2 years to produce those 12 issues.) Actually, with Mark Brown's full-time contribution to **INFO**, we are optimistic that we can soon be coming to you like clockwork. (we are even considering a supplemental news publication to distribute between regular issues- more on this as things develop.)

You may notice that we concentrated quite heavily on the **AMIGA** this issue. The **AMIGA** is new, it's exciting, it's important, and it's made by **Commodore**: so we'll be covering it along with the C-64, the C-128, and anything else significant that **Commodore** brings to market. Here's where your input on the reader survey will make a difference: how much (if not equal) coverage do you want us to give each machine? Tell us on the survey.

The **AMIGA** is, in our opinion, the most significant personal computer to ever see daylight. **Commodore** was darn lucky to win her, and as a result, should have no trouble becoming THE dominant force in personal computing- period. This is no small miracle, because **Commodore** still seems to delight in periodically doing things that would kill a company with a lesser product. For instance, we have been astounded at **Commodore**'s treatment of both dealers and publications in the process of bringing the **AMIGA** to market. It is no secret that **Commodore** went around all of the **Commodore** specific magazines, and gave exclusive first access to the **AMIGA** to the likes of **BYTE** and **Personal Computing** (magazines that have traditionally given **Commodore** the cryogenic shoulder). **Commodore** explains that they feel the **AMIGA** is a powerful business machine, and doesn't fit in with the traditional **Commodore** framework. They seem to think that C64 owners will either not be able to handle & understand all this power, or that they simply won't be able to afford it (they forget that many of us bought 64's at \$595 when \$595 meant alot more than it does today!) Many **Commodore** dealers we have interviewed have run into the same peculiar type of self-chauvinism from **Commodore** when trying to get set up as **AMIGA** dealers: in many cases we were told that while the dealer had had to BEG an **AMIGA** rep to even show them an **AMIGA**, an Apple or IBM dealer around the corner had been sought-out by **Commodore** and already signed.

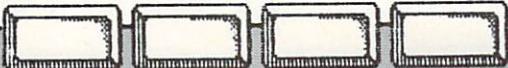
We feel that this is a major error in judgement and marketing savvy on **Commodore**'s part, and is causing much unneeded bad feeling. Ironically, the **AMIGA** is so good, that **Commodore** is going to do extremely well no matter HOW they handle their affairs.

We just hope we don't see this as the new **AMIGA** logo in the future:



AMIGA

- Benn Dunnington



INFO





READER MAIL

.....When I first picked up your magazine I was impressed with your wide and critical reviews of over 1000 programs. Don't forget your humble beginnings.

- Ted Barta
Collegedale, TN

.....Do you ever intend to return to the old format where I got INFO on 100 times as many items, albeit briefly? I far prefer the old format.

- Dave Loomis
Somersworth, NH

.....The magazine was more useful before you discontinued your current listings. You should review all the Commodore products and continually update your ratings.

- Shannon,
Van Nuys, CA

* Thanks for the input. We like the product roundup format, too, so (fanfare, please) HERE IT IS! With over 1200 items listed for the Commodore 64, C128, C128 CP/M, and Amiga, we think you'll agree that this is the best roundup issue ever. We're gaining steam on our plan to be bimonthly and regular, and a key facet of that plan is to produce a biannual roundup issue. (Please note the form on page 34 which lets readers participate in the product roundup rating system.) So twice a year, you'll be updated on EVERYTHING that's available for Commodore machines. (It should take almost that long to read it!)

--Editors

Send us your thoughts, ideas, questions, answers, praise, criticism (we can take it), or your Aunt Martha's recipes.
WE LISTEN

INFO Reader Mail
PO Box 2300
Iowa City, IA 52244

FREE mailing label

Dear INFO:

As a Commodore "hacker" and Secretary of an AFL-CIO Central Labor Council, I hope I can straighten out some misconceptions on your Cottage Industry editorial in Issue #7.

First, you would not be in the category of "cottage industry" workers. As the Editor of Info-64 you would probably be classed as self-employed and/or salaried. Writers have historically worked at home and are not part of any current legislative concern.

Secondly, we aren't interested in finding Jimmy Hoffa. Please do not associate Mr. Hoffa with the AFL-CIO. Mr. Hoffa was Pres. of Teamsters, and the Teamsters were "invited" to leave the AFL-CIO over a decade ago.

Cottage Industry legislation does not refer to salaried people who choose to take work home to their own office. For personal convenience, I run the Central Labor Council office from my home office. I also use this home office for the business of my own union, the Blue Mountain Commodore Users and seasonal farm payroll accounting. But this does not come under the Cottage Industry definition.

Here's what Cottage Industry really is, and why we oppose much of it. When work is deliberately placed out with individuals who agree to work on a "piece work" basis. Let's put me in the role of the employer now, and see why Cottage Industry can be detrimental to employees.

Let's say I run a mailing list service, compiling and selling lists. Continual growth means I have one employee just entering names & addresses into my data files. I pay this person \$1,000 per month, but my costs don't end there. Monthly I also pay \$85 health insurance, \$27 unemployment, \$18 industrial accident insurance and \$71 social security. Vacation and sick leave benefits cost me another \$83, and I think my employee is about to ask for an extra week of vacation time.



I find my true monthly cost up to \$1286 now. And with coffee breaks and a few personal interruptions, my employee only has 7 productive hours a day. With data saving time allowed, I find this employee entering 60 records per hour. with all the fringes my labor cost per record figures to 14 cents each.

So...my solution is "farming" this work out to home workers. I hire 3 people, and offer them 5 cents per entry. It sounds simple, and they accept. When they find they can't make even minimum wage, I'll just replace them with 3 more eager suckers. These 3 people won't even know each other, so they won't be able to compare facts and conspire up a demand for more money. The nice thing is, when I have a day with no new records to enter, they won't earn a cent. I signed them on as private contractors so there'll be no more benefits to pay!

The end result is that I've put one good person in the unemployment line, and put three others on part-time starvation wages. As long as there are willing suckers out there, I'll be able to pocket more than \$7,000 extra profit per year.

It's true you can always find exceptions to this. But labor history can't be ignored when it proves that the major purpose of Cottage Industry has been to pay workers a very sub-standard income.

It is our business, as is anything effecting the well being of employees. Most of the legislation we back each year gives more benefits to non-union workers than it does to our members.

Interest rates are a good example. In the past 5 years, millions of dollars have been spent to keep all consumer interest at affordable levels. This fight benefits both workers and small business.

Lastly, when you call us "extremists" you are labeling as extremists many of your neighbors. We're teachers, phone workers, mail carriers, public employees and various building trade people. Our major goal is fair wages and working conditions for everyone, which includes cottage workers.

- Jim Godfrey, Sec.
Central Labor Council
Walla Walla, WA

--It's good to receive such a lucid explanation of the other side of this issue, Jim, but you forgot to mention auto workers. I was a UAW member for twelve years until I got laid off last year and went off to seek my fortune in the computer field. I know the unions do a lot of good things, like standing up for the rights of Social Security recipients, environmental protection, and keeping the politicians honest; these are all things they should get more kudos and accolades for. But we'll stand by our guns on this one. With the advances in communication, transportation, and education this country has made since the sweatshop days of the textile cottage industries, we think those who work at home on computers will be able to get along pretty well without unionization. Time will tell. In the meantime, it's sure to remain a hot issue, and you'll see both sides in the pages of INFO.

-MB

('The Informer' column to which Mr. Godfrey is responding is not written by me or INFO staff, but rather a prominent freelance computer writer whom we wish to keep anonymous to facilitate both his candor and ability to gather information. 'Buddy Hacker' will hopefully continue to appear regularly in INFO, and add his own brand of provocative sensationalism to the eclectic soup which we aim to serve up every other month.)

-BD

My own position on 'cottage computing'? Well, INFO began in & was published for the first year out of a spare bedroom in my house. Since I wouldn't be here today doing what I love if the union had its way, I might be considered a poor candidate for objectivity on this issue. I believe that people who use computers are, for the most part, the least likely to be taken advantage of- especially when they can network together using the very tool that the unions fear will enslave them. Regardless of what protection these people might need, working on computers in the home offers solutions to so many problems that an all-out ban (as proposed by the AFL-CIO) would clearly be the wrong answer. Working at home on a national scale has the potential to save billions of dollars in fuel costs, vehicle maintainance, parking construction, pollution, insurance claims, personal clothing and child-care expenses, as well as dozens of similar personal and national costs. The flexibility and comfort of working with a benign machine in the home at an individual's own pace and convenience seems like many working persons' dream come true. Even a person who is being treated unfairly can at least decide to quit or look elsewhere for a better deal- you have options. With a ban, there is no choice- you just don't work. Readers: let us know if you are doing computer work (for pay) in the home. Tell us how you like it, what problems you encounter, what you are paid for what type of tasks, and any tips or advice you would like to offer others (also let us know if you feel you are being abused or taken advantage of.) If there are enough of you out there who respond, we will publish the collective information in a future issue and you and others will be able to see how you compare to the norm, and you can confront your employer or look for a new one if you find that you are getting a raw deal. People communicating and helping each other (especially with low-cost computers) is the best way to fight oppression & ignorance.

-BD





Virtuoso!

A True Musical Master for the Commodore 64

(Version 1.1)



All About Virtuoso!

Virtuoso! is a complete music package for the Commodore 64 that allows you to create sounds, compose, and play compositions with ease. **Virtuoso!** is easy to use for the beginner, but is also a very useful composing tool for the amateur or professional musician. **Virtuoso!** is completely menu-driven making it a snap to use! Here are some of **Virtuoso!**'s exciting features: (All in memory at one time).

Preset

The Preset module allows you to create instruments such as strings, horns, woodwinds, and even a few you've never heard of before! Features:

- Allows you to change all the parameters of the C-64's SID chip graphically.
- Allows variable modulation of up to 18 parameters of the SID chip.
- Realistic synthesizer panel graphics.
- Up to 24 presets in memory.

Composer

The Composer module allows you to write musical compositions either by using your creative talents or by using sheet music. The Composer works with the Preset module allowing you to create a true symphony! The Composer module is very powerful and allows you to do things no other music package allows you to do. Features:

- Write compositions up to 900 notes per voice (3 voices).
- Complete transposing features.
- Codas, repeats and other useful functions.
- Easily switch presets, change volume of a voice (or overall) or change key signature throughout a composition.
- Complete 8 octave scale.
- Use dotted whole notes down to 1/192 notes.
- Notes can be played staccato, legato, or normal.
- Plays triplets exactly.

- Print your composition on any standard printer.

Player

The Player plays compositions written by the Composer using presets created by the Preset module. Features:

- Adjustable tempo to playback compositions from very fast, to very slow.
- Ability to play in foreground or background mode.
- A MULTI-COMPUTER feature that allows two or more C-64's to be connected and play multi-part compositions in synchronization.

Extras

But, that's not all! **Virtuoso!** lets you add on:

- **Virtuoso! BASIC INTERFACE:** adds six new commands to BASIC that allow you to play back compositions in the background of a BASIC program: \$15.95.

- **Virtuoso! Musical Keyboard:** a professional style four octave keyboard with software: (Available June 1985) \$69.95.

ORDER TODAY

Virtuoso! comes complete with 10 compositions ranging from classical to new rock. It also comes with 20 presets allowing you to get started right away! **Virtuoso!** comes to you on disk for the C-64 and requires no additional supplies. An excellent value!

ONLY **\$24.95**

+ \$1.00 shipping and handling
MN residents add 6% tax

Order From:

synthware

P.O. Box 3746

Mankato, MN 56002

(507) 345-7697

Dealer Inquiries Invited

CONVERSE WITH YOUR COMPUTER

AT LAST! A FULL IMPLEMENTATION of the original ELIZA program is now available to run on your Commodore 64!

Created at MIT in 1966, ELIZA has become the world's most celebrated artificial intelligence demonstration program. ELIZA is a non-directive psychotherapist who analyzes each statement as you type it in and then responds with her own comment or question—and her remarks are often amazingly appropriate!

Designed to run on a large mainframe, ELIZA has never before been available to personal computer users except in greatly stripped down versions lacking the sophistication which made the original program so fascinating.

Now, our new Commodore 64 version possessing the FULL power and range of expression of the original is being offered at the introductory price of only \$25. And if you want to find out how she does it (or teach her to do more) we will include the complete SOURCE PROGRAM for only \$20 additional.

Order your copy of ELIZA today and you'll never again wonder how to respond when you hear someone say, "Okay, let's see what this computer of yours can actually do!"

READ WHAT THE EXPERTS SAY ABOUT OUR VERSION OF ELIZA:
"Much more than a mere game... You'll be impressed with ELIZA... A convincing demonstration of Artificial Intelligence." —PC MAGAZINE

"Delightful entertainment... An ideal medium for showing off your system." —MICROCOMPUTING MAGAZINE

"ELIZA is an astounding piece of software... A fascinating program to use and study." —BARON'S MICROCOMPUTER REPORTS

"ELIZA is a great way to introduce your friends to computers... A very funny party game." —PETER A. McWILLIAMS

"ELIZA is an exceptional program, one that's fun to use, shows off your machine, and has great historical interest." —POPULAR COMPUTING MAGAZINE

"This version of ELIZA is the best we have seen. As a party game, it is unmatched." —HOME APPLICATIONS FOR THE C-64

ELIZA IS AVAILABLE IN THE FOLLOWING FORMATS:

- 1. Protected Version \$25
(Protected Version can be run but not listed or modified)
- 2. Un-protected Commodore 64 BASIC Source Version \$45
(Source Version can be listed and modified as well as run)

Both versions include a six page user manual.

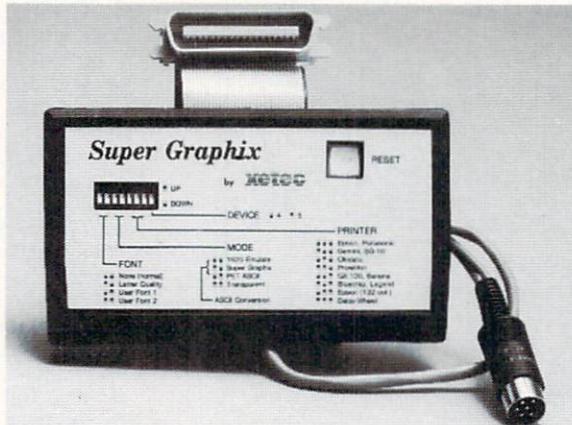
Please add \$2.00 shipping and handling to all orders
(California residents please add 6 1/2% sales tax)

ARTIFICIAL INTELLIGENCE RESEARCH GROUP

921 North La Jolla Avenue, Dept.
Los Angeles, CA 90046
(213) 656-7368 (213) 654-2214
MC, VISA and checks accepted



Super Graphix



You
Asked
For
It . . .
Here
It Is!!!

GRAPHICS and FONTS plus an 8K BUFFER for the ultimate in performance and speed. The XETEC Super Graphix interface for Commodore Computers now offers a new high in technology with these features:

- 8K Buffer Standard
- 10 Printing Modes
- 3 Internal Screen Dumps
- Extensive Command Channel
- Reset Button to Halt Printing from Buffer
- Switch Settings on Label for Quick Reference
- Correspondence Quality Font Built-In
- Capable of Storing 2 Additional Fonts
- Correct Graphics/Text Aspect Ratio for all Major Printers
- 8 Active Switches with Changes Constantly Monitored
- Internal Fonts Support Super-script, Sub-script, Underlining, Bold-face and Choice of 9 Pitches

Suggested list \$99.95 • **Includes Lifetime Warranty**

XETEC, Inc. / 3010 Arnold Rd. / Salina, KS 67401 / 913-827-0685

It doesn't take much to make your programs run up to 20 times faster.

If you've been writing programs for your Commodore 64, Apple IIe or Apple IIc in BASIC you can take a giant step forward in speed of execution and in programming productivity for just \$49.95.

You can get program performance that you only thought possible from machine language programs. While still using a powerful, understandable high-level language. A language that's similar to Pascal, but much easier to learn and use.

You can create programs with our advanced, full-screen editor—much like you would on a word processor, and it even locates your compilation errors.

And when you compile your programs, you have a fast one-pass compiler, a recursive descent compiler that can compile a 100-line source program in 10 seconds or less.

PROMAL™ also gives you an elegant operating system "Executive" which includes powerful file, program and memory management commands and even I/O redirection.

You get all of that with PROMAL—improved programming productivity, faster compile and run time and power that you may never have thought possible.

PROMAL—for the beginning or advanced programmer.

Whether you are just beginning to write or are an experienced programmer, you can be more productive with PROMAL (PROGrammer's Micro Application Language). It's easier to learn than Pascal, C or Forth. It provides you with a full range of powerful structured statements like IF-ELSE, WHILE, REPEAT, FOR and CHOOSE. And, because indentation is part of the language's syntax, it helps you write programs neatly and logically. There are no line numbers to worry about, and since comments don't take up memory space, you can document your programs completely.

COMMODORE 64 BENCHMARK

(Sieve of Eratosthenes)

	PROMAL	BASIC	COMAL	FORTH	PASCAL
Execution Time (secs.)	30	630	490	51	55
Object Code Size (bytes)	128	255	329	181	415
Program Load Time (secs.)	3.2	3.8	6.3	11.2	23.5
Compile Time (secs.)	8.5	—	—	3.9	108

PROMAL—a language especially for small systems.

Unlike languages developed for larger systems and squeezed into small systems environments, PROMAL was conceived and developed specifically for the small system. With PROMAL there's finally a language created for the environment in which you work.

Speed up your programs and step up your programming productivity.

You get all of that speed and productivity—with the PROMAL PM-200 "End-User" system (220 pages of

documentation and PROMAL system diskette including sample programs) for just \$49.95. There's a 15-day, no-risk moneyback guarantee. And the entire \$49.95 may be credited against later purchase of the "Developer's Version."

The "Developer's Version"—all the components of the "End User" system plus the "run time" object module generation capability, additional documentation and an unlimited right to sell or distribute PROMAL applications—is only \$99.95.

Or—for only \$10.00 plus \$2.50 postage and handling you can get the PM-100 demo system. It includes a 32-page manual and all the

capabilities of the PM-200 except the ability to print or save

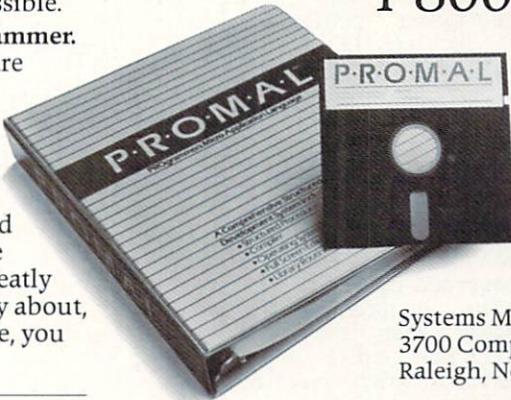
files to disk. It's a very inexpensive way to explore the wonders of PROMAL.

Our Guarantee: Try PROMAL for 15 days. If you are not completely satisfied, return it to us undamaged and we'll refund your money. No questions asked. Dealer inquiries invited.

For quicker response on credit card orders, call Toll Free:

1-800-762-7874

In NC: 919-787-7703.



See us at SOFTCON
Booth 1901



Systems Management Associates
3700 Computer Drive, Dept. I-1
Raleigh, North Carolina 27609

Order Form

Please send me my copy of PROMAL

My system is (check one): Commodore 64 Apple IIe Apple IIc
PROMAL Package Desired (check one):

PM-200 (for systems listed above) \$49.95 plus \$5.00 for shipping and handling at a total cost of \$54.95. Satisfaction Guaranteed.
 PM-300 Developer's Version \$99.95 plus \$5.00 for shipping and handling for a total cost of \$104.95. Satisfaction Guaranteed.
 PM-100 demo diskette \$10.00 for the diskette plus \$2.50 for postage and handling for a total cost of \$12.50. (Non-refundable.)
 My check is enclosed. Please charge my purchase to my Visa Mastercard

Card Number

Expiration Date

Signature

Name

Address

City, State, Zip

North Carolina Residents add 4-1/2% sales tax.
Foreign orders add \$15.00 additional shipping and handling



READER MAIL

Dear INFO:

I am writing to comment on a statement by Mark Brown which appeared on page 31 of issue number 7. Specifically, Mark said "the U.S. of A.'s copyright laws allow you to make up to five (why so many? I don't know.) copies of a program for your own use."

The right of software consumers to make backup copies is governed by Section 117 of Title 17 of the U.S. Code. Subsection 2 discusses copies for "archival purposes only" and it seems that the reference to "archival copies" at least suggests that more than one backup may be made. However, it does not appear that a specific limit on the number of archival copies is mentioned.

More importantly, your readers should be made aware that many sections of the copyright statute are default options. These defaults govern relationships between a copyright owner and consumers only in the event that no specific contract clause between the owner and the consumer governs the situation contemplated by the statutory section. Many software publishers evidently think of Section 117 as a default option rather than a mandatory right, because many software license agreements specifically prohibit the user from making backup copies. Some, for instance, offer the option of sending in a ruined master disk with a fee in order to obtain a substitute master.

License agreements are contracts and contracts are governed by state law. Whether or not such contracts are binding on the consumer when they are hidden from view in a box until after purchase is a question which may be decided differently from one state to the next. However, I suspect that many publishers would fight to support the validity and enforceability of their license agreements which prohibit user-made backup copies.

- Sincerely yours,
John Krout
Law offices of Gipple & Hale
McLean, VA

A much appreciated legal clarification, John. It seems that the grapevine, always a questionable source of legal advice, was wrong on this one, too. It looks like the piracy-or-protection controversy will continue to rage on, at least until some definitive laws or court decisions come down.

--Editors

★ FREE SOFTWARE CATALOG ★

Educational, Household, Business Programs
FOR

Commodore 64 & Apple II
INSTA-SHIP, 1592 Eric Ct., Yuba City, CA 95991
(916) 671-0384

Write or call for free catalog.

***** SOFTWARE PROGRAMMERS *****

Your program published and distributed by
Insta-Ship with excellent royalties.
1592 Eric Ct., Yuba City, CA 95991
(916) 671-0384

Call or write for more information & details.



CEREAL I/O PORT



PRIMITIVE WORD PROCESSOR:
SYSTEM CRASH

NEWS & VIEWS

REPORTED BY:
Benn Dunnington



C-128 UPDATE

Well, after many last-minute hold-ups (apparently related to FCC red tape), the **Commodore C-128** finally began shipping in late August. Every dealer we have talked to has sold every C-128 they've been able to get their hands on, and are waiting for more to arrive. One of our friends in Denver, CO reports that the Denver Sears store **sold their entire initial shipment (500 units) in 4 hours!**

1571 disk drives are still in short supply, but we finally received a production unit to replace our prototype, and are pleased to report that the replacement is free of the minor bugs which were present in the prototype.

We still have not received a single software title to look at that specifically takes advantage of the machine's higher performance 128 mode (8502 CPU), although **Batteries Included** promises that we will have review copies of new 128-specific versions of **PaperClip** and **The Consultant** by the time you read this. Also said to be near completion are: **SuperBase 128** & **SuperScript** (both by **Precision Software**, available from **Progressive Peripherals**—see related item below), **Vizastar 128** from **Solid State Software**, **Perfect Writer, Speller, & Filer** by **Thorn EMI** from **Commodore**, and several titles from **Timeworks**. Fortunately, the titles above suggest that at least quality, if not quantity, will attend the slow start in C-128 product introductions, with the list above representing C-128 versions of some of the very best productivity titles for the C-64.

CARDCO WARNING: BOGUS INTERFACES

The folks at Cardco Inc. (Wichita, KS) asked us to pass this alert on to you: Apparently, Cardco contracted with a Japanese firm to produce Cardco "Plus G" printer interface. The units arrived here defective, and Cardco cancelled the contract. Somehow the reject units made their way into the country via the "black market", and have been showing up here and there. There are two ways to identify the bogus units: they don't have an FCC approval label on the back, and they are about 4 oz. lighter than a genuine "Plus-G". If you find one in a store, tell the dealer— he probably bought them unknowingly, and will be glad to be warned by you.

MIMIC SYSTEMS STILL PROMISING APPLE EMULATOR

We first broke the 'story' on this product two years ago (see issue #2— Winter 83/84). Back then it was **PIONEER SOFTWARE**, and we used to be able to reach the president, **Dave Perris**, for periodic reassurances that the **AP MODULAR PAK** (as the **SPARTAN** was then called) was near completion and that a prototype for review was anywhere from a couple of weeks to a couple of months away from shipping.



SPARTAN MIME
Who is this man, and
why is he smiling???

Now the company is called **MIMIC SYSTEMS**, the product is called the **SPARTAN**, Mr. Perris won't return our calls, and we still have yet to see a working prototype, much less a production unit. The Mimic Systems order line always gets us thru to a cheerful order taker who assures us that units will be shipping in "6 to 8 weeks", and "would you like to place an order?" We have been getting this same "6 to 8 weeks" line for the last 9 months.

What about the **SPARTAN** itself? For \$599.00 this add-on is said to allow the C64 to use all Apple II+ software and hardware. Let's say you've got a C64 and you also want to use Apple II+ software and peripherals, is \$599 a good deal? To find out, I called a local Apple dealer in Iowa City. I was informed that the Apple II+ (which is no longer made) is often traded in on newer systems: how much do the used II+'s go for? The local dealer typically sells the used II+ with a disk drive and monitor for.... \$450.00! So, I could have an entire GENUINE Apple II+ system for \$149.00 less than it would cost just to make my C64 compatible, and I wouldn't have to tie up my C64 to do it. If you just HAVE to use Apple II+ stuff, at least give your local Apple dealer a call and see what the alternatives are.

I've got other problems with the **SPARTAN**: look at the photo in the ad (on page 1)— by the look of it, the **SPARTAN** has to plug into the entire array of ports on the back of the 64! (I sometimes have trouble just getting a single cartridge or cable to line up properly)— you're likely to need a **VICE** to connect this whole gadget to the 64!

Folks, I hate to lose another advertiser, but I smell TURKEY (and it's not even Thanksgiving yet)!



PROGRESSIVE GETS PRECISION TITLES

PROGRESSIVE PERIPHERALS NOW EXCLUSIVE U.S. DISTRIBUTOR FOR PRECISION SOFTWARE PRODUCTS

Precision Software (makers of SuperBase, EasyScript, and SuperScript) have closed their U.S. offices, and retreated across the Atlantic to England from whence they came. In their stead, Progressive Peripherals (Denver, CO) will be the exclusive distributors for Precision's product line in the U.S. Precision's Max Donaldson says that Progressive Peripherals will also take over technical support for the line, and that new C-128 Versions of SuperBase and SuperScript are expected to be arriving in the U.S. around mid-October.

3 FROM AQUARIUS

AQUARIAN SOFTWARE ACQUIRES DISTRIBUTION RIGHTS TO COMPUTER TOOLS TITLES

Aquarian Software (see ad elsewhere this issue) has just acquired the distribution rights to several software titles from Computer Tools (NY). Among the first titles to be marketed will be CAD GEM, a low-cost, 3-d wire-frame CAD package for the C64 which supports light-pen, keyboard, or joystick input, and can scale, rotate, translate, and zoom complex objects in space. We have worked with a preliminary copy, and were quite impressed. Another title ready for release is ?THE THINKER?, a "thought processor" which promises performance comparable to software costing nearly \$500 on the IBM PC-XT. ?The Thinker? lets you type in thoughts as you have them and evaluates them on up to ten criteria. Based on 'Bayesian' logic, ?THE THINKER? comes with the Computer Assisted Thought Organization & Evaluation System (CATHOES) package for \$39.95. For graphics enthusiasts, Graphic Screen Exporter-64 will be of interest. This \$29.95 utility is said to convert graphic screens created by any graphics program into any other graphics format (including hi-res to multi-color and back.)

for more INFO, contact: Aquarian Software
PO Box 22184
Portland, OR 97222
(503) 654-2641

NEW DIGITIZER



A new video digitizer made by PRINT TECHNIK of Austria has made its way into this country and will be distributed by Bowitz International of Las Vegas NV. The video digitizer features high-res. full-screen imaging, menu-driven controls, light pen editing capability, translation to Koala and Paint-Magic formats, popular printer support files, artificial coloring, cursor-controlled image cropping, and comes with a diskette containing several applications routines including: slide show (sequential display of stored pictures), and a program which compares two consecutive pictures for deviations, counts these, and triggers an alarm if a specified number of deviations is exceeded. The digitizer interface has controls for adjusting contrast, brightness, & aspect ratio. Standard video sources such as video cameras, vcrs, and composite video out may be used as input.

for more INFO, contact: Bowitz International
3140 Polaris Ave.
Las Vegas, NV 89102
(702) 731-1516



SOUND SERVICE

by: Peggy Herrington



Signs of a depressed industry abound these days and are faithfully reported by the media, and while tales of 3rd-party mergers, 1st-party stock-piles and 2nd-party buying reluctance help bring prices down, they sometimes make for fairly dull reading.

There's a real battle brewing in one segment of the industry however which shows promise of livening things up. Four commercial networks are squaring off for their first World War this fall with two others about to join the battle for your telecommunications dollar. And the fight could become so intensified you might not be able to remember whose side you're on without a program.

REMEMBER WHEN TALK WAS CHEAP?

Well, it's not anymore... at least not on a commercial network. Provided you know what you're doing, you can swoop online, download a couple of programs and read or upload a few messages fairly often without incurring major expense. But when it comes to conversing with other users online in real-time -- whether you're gaming on **PlayNet**, questioning a guest on a **CompuServe** Conference, indulging in a little CB CompuSex, matching wits with some of the liveliest SYstem OPerators in the biz on **Delphi**, or joining the Partyline on **PeopleLink** -- you can run up a staggering bill in a month's time. By then they've gotcha: You're hooked!

Say you go online for couple of hours a session, three times a week -- not overly much, believe me. If you're on one of the full-service networks, at this rate in one month you'll spend the price of a C64 from a discount house today. Some network analysts believe that's too much for the low-end Commodore market, no matter how extensive the online data bases or informative the talk. While others offer convincing arguments to the contrary, this reasoning has spawned several lower priced networks, ala **PlayNet** and **PeopleLink**; networks that offer less extensive services on simpler systems; networks which "power-users" -- people who've mastered **CompuServe** or **Delphi**, for instance -- try to ambush at every opportunity.

[-Editor's note: even at our increased rates, you can still subscribe to INFO for a YEAR for less than most telecomputists spend in one evening for connect time.]

ALL'S FAIR...

As far as Commodore personal or hobby networking goes with no weekday business services included, there are four commercial networks doing battle now. Two more will sally forth this fall and a third (**Gateway** with NAPLPS graphics) is rumored to be oiling its guns (beta testing). Blow-by-blow accounts of the action will be in future issues but here's a brief description of how the field is shaping up. The figure in parentheses is the cost of 24 hours online not including signup fees (if any), during evening and weekend hours only at 300 baud -- our month in the preceding example. Keep

in mind that wars are not necessarily won by financial advantage; knowing how and what to put on (the)line can turn any battle.

CompuServe 1-800-848-8199 (In Ohio 1-614-457-8650) No registration or monthly service charge, just \$6 per hour online. Although the Commodore Information Network (CIN) is moving to **QuantumLink**, spokesman Jeff Ballowe says CompuServe is committed to CBM users, who form a substantial portion of their 220,000 subscribers, many of whom have never been near CIN, and will continue to offer Commodore-oriented services with or without CBM. There's a wealth of info and fun on this proven, reliable network. (**\$144.00**)

Delphi 1-800-544-4005 (In Maine 1-617-491-3393) \$49.95 registration includes a handbook and 2 hours online, then \$6 per hour. No charge for 1200 baud or Tymnet access. Extensive data bases building nicely here. Check out Flagship Commodore, Micro Artists Network (aka "MANIAC") and Bozart's. (**\$144.00**)

PeopleLink 1-800-524-0100 (Illinois 1-312-870-5200) Registration is \$29.95, no monthly service charge. First 3 hours each month at \$4.78 each, then \$2.95/hr thereafter. Talk-oriented "PLink" is rumored to have successfully wooed many of the saner CBer's away from CompuServe. (**\$76.29**)

PlayNet 1-800-PLAYNET. The registration of \$19.95 includes 3 disks and a manual; \$8/month service charge and \$2.75/hr online, plus about \$.50 each for downloads. Disks hold terminal program, colorful graphics and games that require a minute or two load time from your disk drive each time you switch areas. Menu driven and super-easy to navigate. Online shopping and public domain program libraries recently opened. (**\$74.00 plus download fees if any**)

NEW CONTENDERS

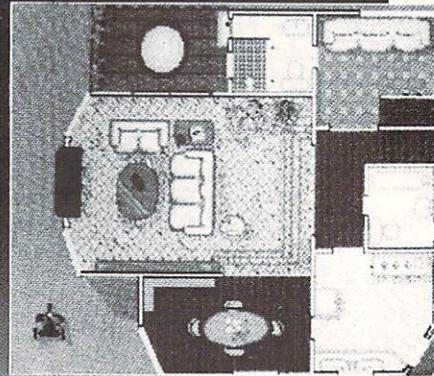
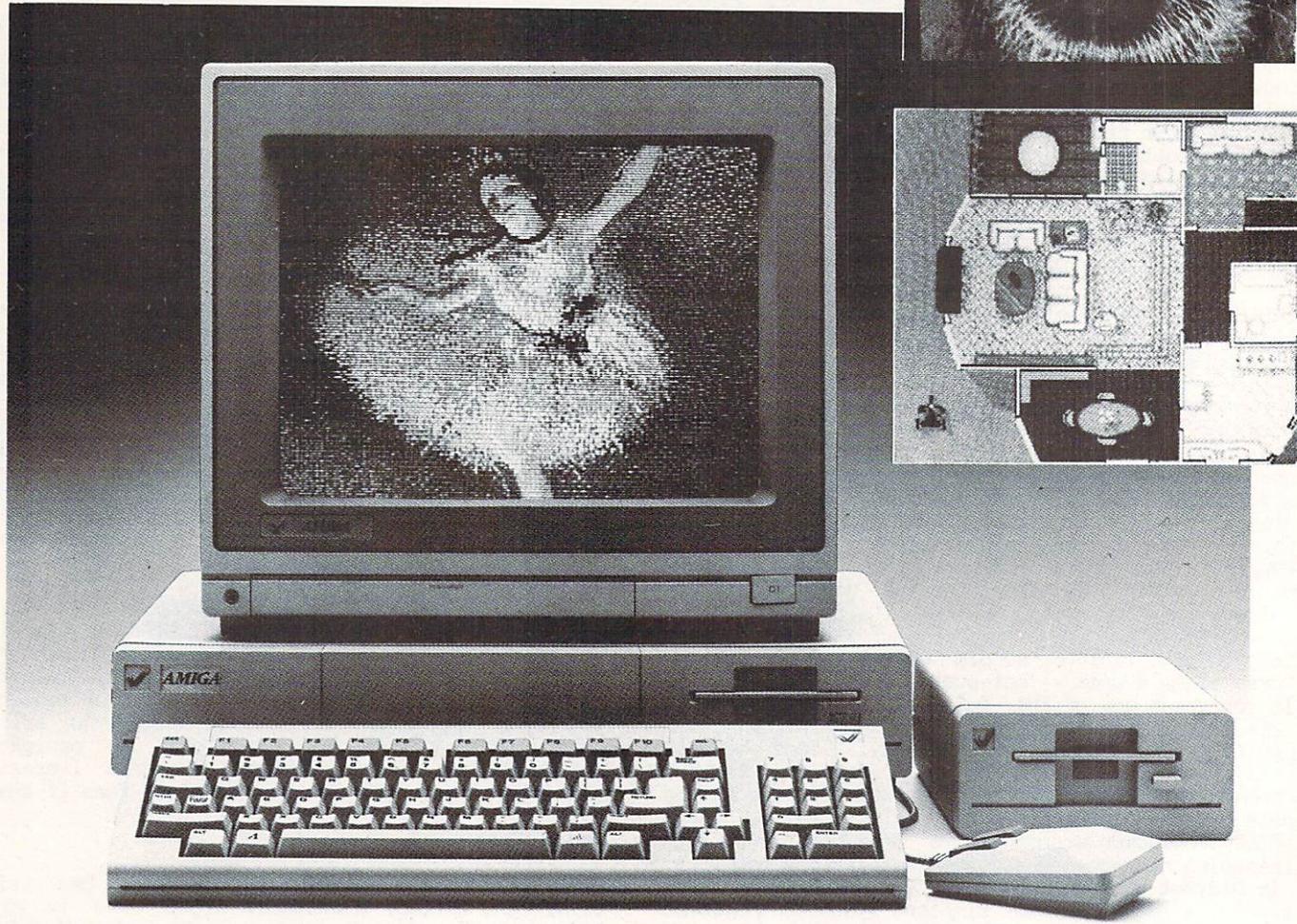
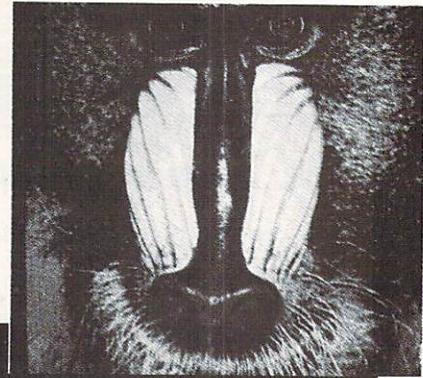
QuantumLink A national network that has tried before and failed, **QuantumLink** might make it this time with the aid of Commodore Business Machines online, including the SYSOPs from CIN. They've licensed the rights to use any/all of **PlayNet**'s software, both user and mainframe and are now busy altering it and arranging beta testing. Dave Paul, CBM Telecom Manager says it won't require a special modem. Prices announced at MARCA were \$9.95 for basic service plus \$3.60/hr in surcharged areas like talk and probably downloading. Full service network is planned. (**\$74.75 at 75% surcharged**)

ViewTron 1-800-327-6500 This fall will be the first-ever U.S. offering of network NAPLPS for the C64, the Canadian protocols that allow transmission of color graphics with text, and you'll probably need 1200 baud (at no extra charge) to appreciate it. Starter Kit for \$9.95 will include terminal software, manual and one hour free online. Thereafter it's \$5.40/hr for full range of services: online shopping, conversation, reference materials, CBM software reviews and special interest groups. (**\$129.60**)

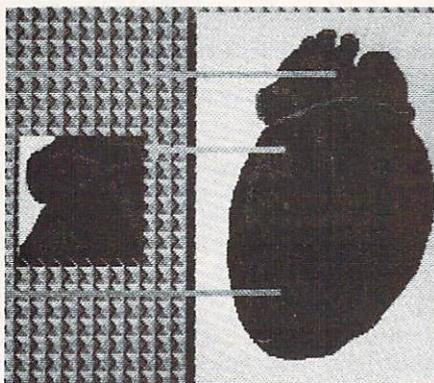
INFO

AMIGA!

* IN PICTURES *

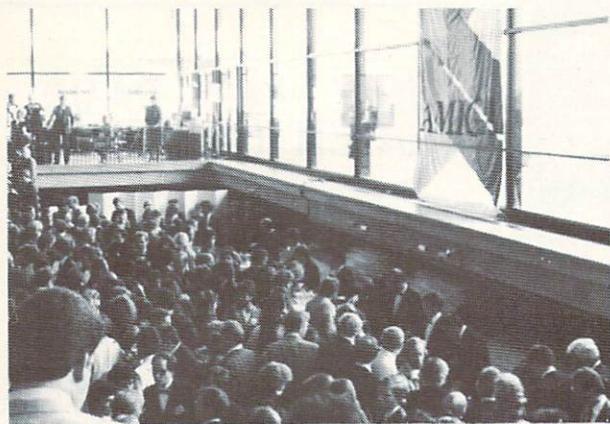


July 23, 1985. In the specialty computer stores around the country, business appears as usual; posters of Charlie Chaplin look-a-likes and partly-eaten fruit hang jauntily from walls, crates of PC's are stacked neatly on the plush carpeting, and cash registers ring merrily (or do their electronic equivalent) as a steady stream of no-nonsense consumers trades sobering sums of cash for armloads of impressive-looking equipment and provocatively packaged software. Reassured by solid-feeling ads, and comforted by names which ring with the sound of permanence (IBM...Apple...AT&T...) customers and salespersons smile knowingly at each other; it feels good to be sure, to be in the know, to have an eye for quality, to be **BUYING RIGHT**.



A similar sense of well-being and business-has-never-been-better must have pervaded the average carriage shop on the day Henry Ford unveiled his Model 'T'.

July 23, 1985. If you are interested in history, you will want to remember that date; it is the day that IBM's PC, Apple's Mac, and scores of lesser silicon marvels of our decade became obsolete.



Lincoln Center crowd scene

July 23, 1985
Lincoln Center
New York, NY

They came by the hundreds, many in black tie. They lined up for over an hour in the hot July evening and waited until the receptionists saw the futility of greeting each individual, threw up their hands, closed their guest registers, and opened the flood gates. The hour of the Amiga debut was at hand.

Inside, the huge assemblage of Members of The Press rubbed shoulders and jockeyed for position; some pressing toward the dozen or so bar tenders mixing drinks at blurring speed, others seeming to dance with waiters carrying exotic permutations of fish, fowl, meat and garnish held aloft on silver platters, while others tried to see thru shrouds which covered dozens of computer-sized objects resting on table tops throughout the building.

A contagious electric thrill was sucking at our socks, like an undertow. I had heard the phrase nearly 50 times in the last 2 weeks, but now I could almost imagine the literal reality of, "it'll blow your socks off!"

Finally we filed into the inner arena and were held in restless abeyance by an unusual musical apparition: three persons playing a haunting piece rendered unto our ears by a violin, xylophone, and tuba!

Three Amiga monitors glowed softly around a low stage, and T.V. crew members limbered up with both hand-held and rail-mounted video rigs. The music stopped, the lights went down, and history was made.

The show lasted about 2 hours, and many wondrous sights and sounds held the audience captive:

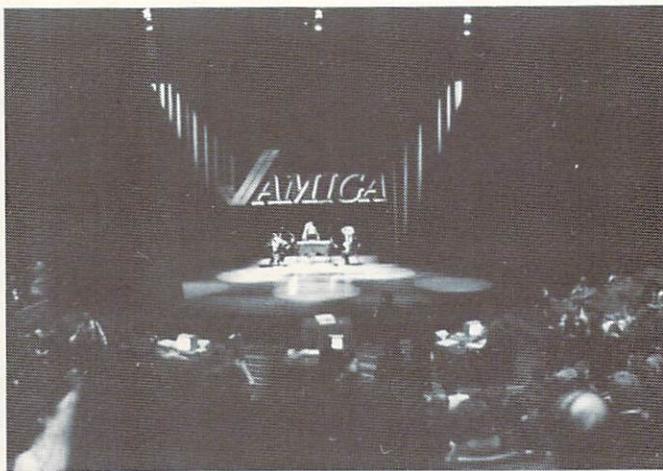
We witnessed astonishing demonstrations of animation; fluid, fast, complex, & captivating. There was thunderous applause.

We heard incredible sounds; from the deep thud of tom-toms to the totally convincing raunchy guitar opening of "Smoke on the Water". There was wild cheering.

We saw Andy Warhol immortalize Debbie Harry on the big-screen in Op-Art splendor. The applause was getting monotonous

We saw a Degas painting of a ballerina come to life and dance gracefully in perfect sync with a real ballerina on the stage below. I saw grown men dabbing at their eyes.

We saw MS-DOS loaded into an Amiga by a 40K software emulator followed by Lotus 1-2-3; as the drab green text slowly filled the screen, a hush settled over the crowd. The contrast was shocking. There was understanding, and then there was pandemonium.



AMIGA monitors glowed softly



Debby & Andy: a nice couple

-B.D.

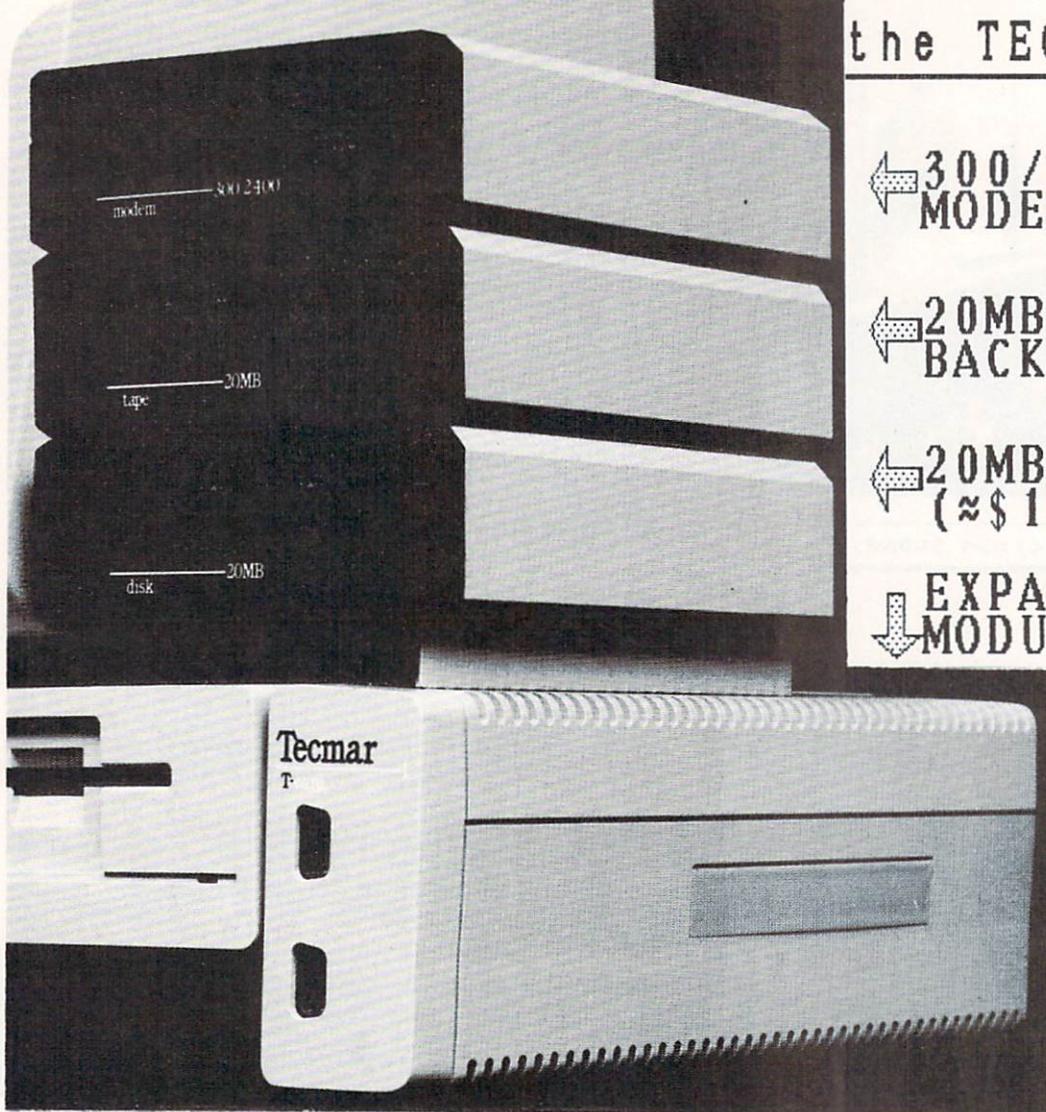


INFO



17

the TECMAR family



MODEMS

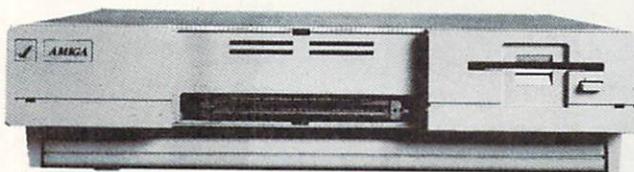
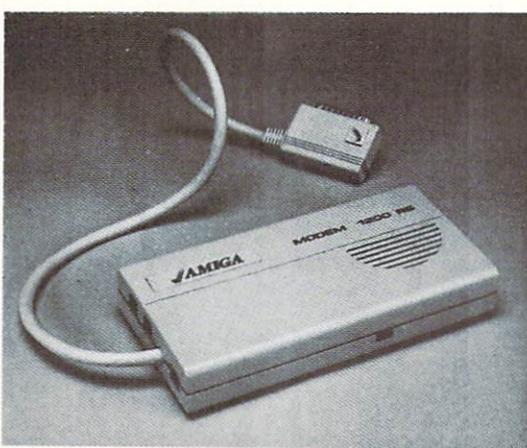
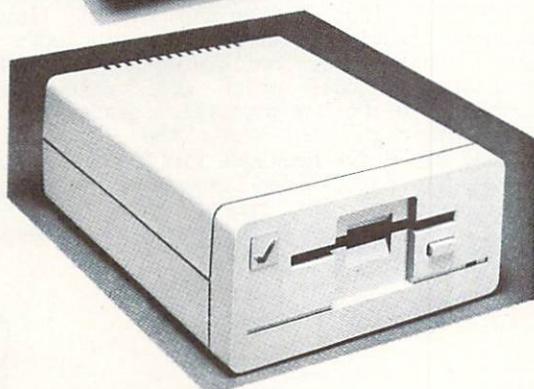
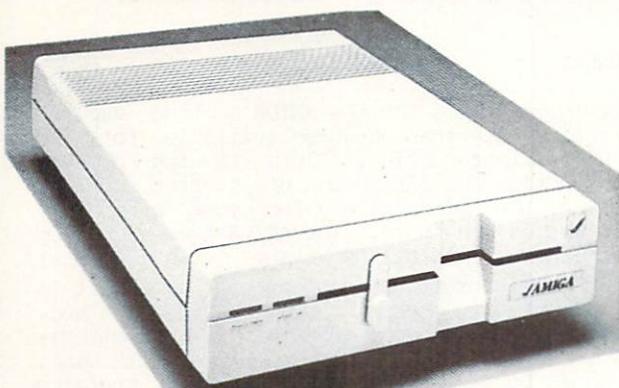
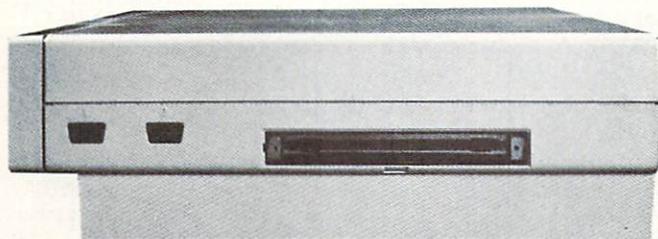
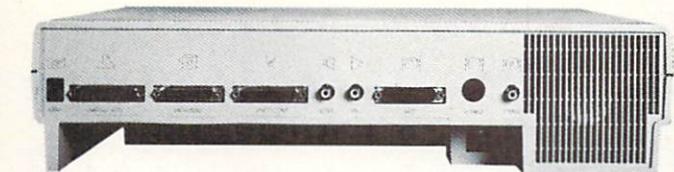
Commodore's 1200 RS modem (photo opposite) operates at 300 or 1200 baud, is auto answer / auto dial / auto baud / auto speed / auto mode selection / and features Hayes "AT" command set / built-in speaker / terminal software (on disk) / and one month subscription to Commodore's "Quantumlink" information service. Seems like a fair deal at \$295. Tecmar is also offering a modem: for about \$600 you get 300-1200-2400 baud operation / tone decoding / off-hook detection / and interfacing to **AMIGA**'s audio circuits.

OTHER HARDWARE

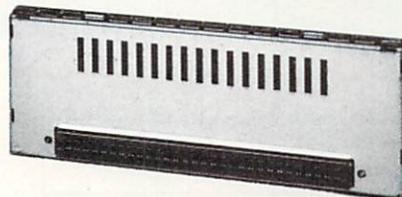
AMIGAphiles will want to get the max out of their machine with the **AMIGA A1080** analog RGB color monitor (tho you can get decent results from a composite monitor or even a home T.V.). The A1080 (made for Commodore by Toshiba) will set you back about \$500 for a 13" screen capable of showing all 4096 colors at a resolution of 640 x 400 pixels and at a 10 MH bandwidth. This monitor will accept other video input including digital RGBI, NTSC composite, VCR, and TV tuner.

For even more elaborate video possibilities, you may want to look into the low-cost (about \$200) **gen-lock interface** which allows for sophisticated input, manipulation, synchronization, and processing of various video signals (see center photo, next page, the gen-lock device is on top of the monitor). For example, at the Lincoln Center show, an animated image of a 3-D slab with the **AMIGA** logo written in space in front of it was being tumbled end over end in front of a live video image supplied by a camera trained on the crowd. This type of capability has not been affordable in the past, and will probably sell like hotcakes to the smaller cable tv stations as well as schools.

The **Amiga Eye**, a nifty video digitizer or "frame grabber" from A-Squared Systems adds even more possibilities to the already rich video & graphics horizons claimed by **AMIGA** (see color photo on page 6). The **Amiga Eye** allows capturing an image, and then manipulating the hue, saturation, luminance, and brightness of the image as well as replaying one-second segments in slow-mo, stop action, or high-speed.



256K - \$200
just plug it in!



Initial hardware offerings upon the introduction of the **AMIGA** are impressive.

As you can see from the photos here, the **AMIGA** is bristling with ports. Even tho it has no internal card cage, the **AMIGA** is the most expandable & flexible PC ever unleashed.

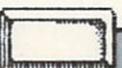
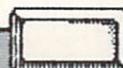
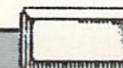
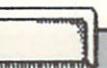
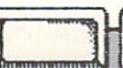
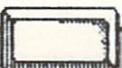
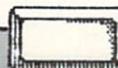
MEMORY EXPANSION

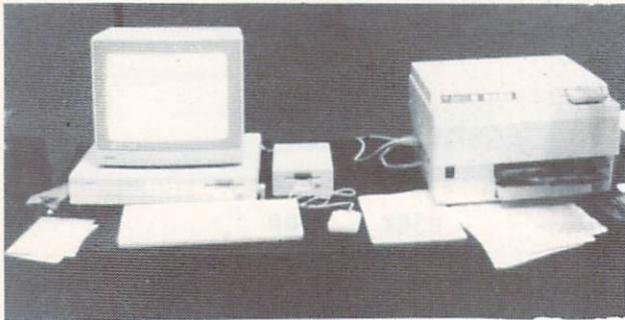
The top right photo shows the internal memory expansion slot in the center of the main cabinet (this slot is normally covered by an exterior panel.) Below it is shown the 256K expansion module (expected price: \$200).

Immediately to the left of the expansion module is the right-hand view of the system unit showing the expansion bus. It is thru this bus that further (external) memory expansion will be accessed (up to 8 Megabytes). On the opposite page you can see the first product which uses this port: the Tecmar 'T-Card'. The 'T-Card' snaps onto the side of the **AMIGA** and provides space for the first Megabyte of extra RAM as well as a clock/calendar with standby battery, serial port, parallel port, buffered bus expansion port, and heavy-duty power supply.

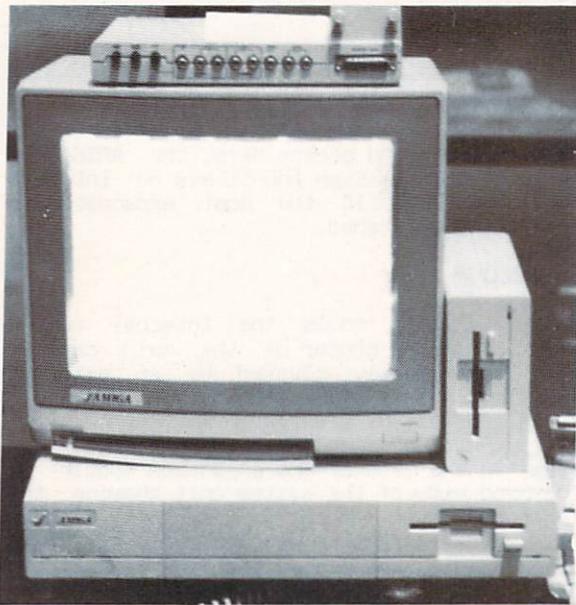
DISK STORAGE

Beyond the built-in 880K 3.5" micro-floppy drive, Commodore is offering add-on 3.5" drives, and a 5.25" 360K floppy drive. The 5.25" unit looks exactly like the C-128's 1571 (and is probably the same mechanism) and is for use with IBM formatted diskettes by those using the IBM emulator or wishing to transfer data files from IBM software to **AMIGA** software. Maybe the most exciting storage news is Tecmar's 20 MB 'T-Disk' hard drive (see photo opposite) which is slim, fast, and inexpensive (about \$1000). Tecmar is also offering a 20MB tape backup system for their hard drive for about \$600 (!) which will back up 20MB in "a few minutes". Tecmar's \$3500 60MB tape backup for the IBM PC was recently top-rated in a comparison done by Popular Computing (Sept. 85). Who says the 'big boys' aren't supporting the **AMIGA**?





↑ AMIGA with laser printer
↓ Gen-lock Video device



Lots of documentation

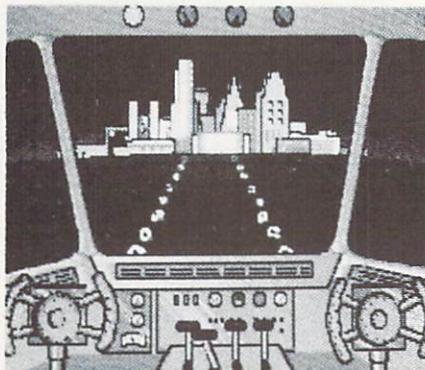
Arktronics showed their **Textcraft** wordprocessing package driving a Hewlett Packard **laser printer** (see top photo), and they are working hard on a publishing package which we hope to be beta-testing for them later this year. We expect to see the cost of laser printers coming down soon, and when they do- you'll see a revolution in publishing that would make Gutenberg's head spin!

DOCUMENTATION

As you can see from the bottom photo, there is already a stack of support documentation ready for the **AMIGA**. Separate manuals and guides were on display covering almost every aspect of the **AMIGA**. With a machine as diverse and potentially complex as the **AMIGA**, good thorough documentation will be critical.

SOFTWARE

More software exists for the **AMIGA** on the eve of its shipping date than has been available for any other PC at introduction. Turn to the product roundup section for a rundown of current titles, and look at the **AMIGA** gallery for some previously unpublished screen shots. The **AMIGA** comes bundled with **AMIGADOS**, **INTUITION** (the graphic user interface), **Microsoft Basic** (Microsoft claims it is the best version they have ever written), **Kaleidoscope** (a graphics package from Electronic Arts), and a tutorial disk. The "Kick-start" disk, which boots up the operating system, also contains over 120,000 lines of proprietary source code containing all kinds of free and useful libraries and support routines. This code includes (for instance) routines for configuring RAM as RAMDISK, and development tools which will allow serious programmers to do commercial grade software development right out of the box without additional expensive packages (in fact, we recently read a report that claimed Commodore is targeting certain areas of the country for heavy **AMIGA** shipments where high numbers of unemployed programmers are known to live.)



The third party software we saw in New York was impressive. The common thread was speed and superb graphics. Games like Electronic Arts' **Marble Madness** and Sublogic's sequel to Flight Simulator, **Radar Raiders** are real eye-openers (see color screens of both in AMIGA GALLERY on page 6). Ironically, 'Marble Madness' is an Atari arcade game which, because of speed and animation considerations, will look and play much better on the **AMIGA** than on Atari's own ST!

While **AMIGA** critics whined, "but there's no big-name business software for it", we would like to point out that the **ENABLE** line of productivity software is near completion, with their full-blown integrated package, **The Office Manager**, slated for December, '85 release. If you follow the reviewers in non-Commodore magazines, you will recognize

ENABLE (with its combined wordprocessor, spreadsheet, database manager, telecommunications, and graphics modules) as a title that is generally regarded as far superior (in its IBM incarnation) to 1-2-3 and the other more heavily hyped titles in vogue today. In its **AMIGA** version, **The Office Manager** can even transfer files to and from 1-2-3, dBase II, VisiCalc, Volkswriter, Easy Writer, and Multimate, and will most likely make moot the question of "when will these titles be available for the **AMIGA**?" (and you can bet your blitter that it will cost at least one arm or leg less!)

In our November/December issue, we will return with a hands-on report on the **AMIGA**, and several of the 3rd-party products that go with her.

-B.D.



Amiga vs IBM

**The question is:
How can you make an IBM PC
more like an Amiga?**

**The Amiga leaves the PC
in the dust....**

**Topview and GEM take up
about 256K of RAM...**

The major question that most computer journalists seem to ask about the Amiga is, "How good is its IBM emulator?" This is like asking, "how good a bicycle does your motorcycle make?" The answer is not going to be very satisfactory, because the question is ludicrous. An equally ludicrous, but more appropriate question might be: "How good a motorcycle can you build out of a bicycle?" Or, in this case: How can you make an IBM PC more like an Amiga?

THE SYSTEM LEVEL

First of all, the IBM PC has some real internal problems to overcome. The Amiga's microprocessor has twice the throughput of the IBM's cpu, and runs at twice the clock speed. This gives it a four times speed advantage. Add the margin it gains by means of its three time-saving co-processors, and the Amiga leaves the PC in the dust. For \$300 you can add an 8088-2 'OverThruster' chip to the PC which the manufacturer claims will give you a 60% speed improvement. We can also get a little boost on calculations by equipping it with an 8087 math coprocessor (\$149), but this still won't bring it even close to Amiga speed. Besides, most software will not take advantage of the 8087. Unfortunately, it's the best that we can do. The 68000 in the Amiga can also address 8 megabytes of add-on memory, while the PC can only handle 640K, but there's nothing we can do about that, either. If we want to add more RAM later, we'll have to use less effective bank-switching to do it.

STORAGE

The PC's 5.25" disk drive only stores 360K of data, compared to the 880K the Amiga's 3.5" drive can handle. We'd better buy our PC a second drive, which at least brings us up to 720K. We can buy a PC with two drives and 256K of internal memory as a package deal for \$2995 list.

PORNS

The Amiga has built-in RS232, parallel, and game ports. The IBM has none. We can add them all to the PC by plugging in a **Quadram Quadboard** for \$795. This also expands the internal RAM of the PC to its full 640K; we'll need it, as you'll soon see.

OPERATING SYSTEM

We want an operating system like Amiga's **Intuition**, so we'll add **TopView** (\$149) and **GEM** (\$49) and a mouse (\$149) to run them with. They take up about 256K of RAM, so you see why we added the full RAM to our **Quadboard**. **TopView** is our multitasking environment, but it's much slower than **Intuition** since it's just glued on top of the PC's normal **MS-DOS**. It doesn't leave us enough free memory to run more than two really heavy-duty applications together. In fact, it's doubtful whether we can even get two programs as massive as **Lotus 1-2-3** and **Wordstar 2000** both up and running at once.

SOUND

The PC comes with no video output at all...

Perhaps it would have been kinder to compare the Amiga to the IBM PC/AT.

Amiga vs IBM

The price of comparably equipped systems

Amiga w/3.5" 880K drive	\$1295
PC Emulator (software)	\$ 100
PC Emulator (hardware)	\$ 100
RGB Analog Monitor	\$ 495
Total System Price	\$1990

IBM PC w/2 5.25" 360K drives & 256K RAM	\$2995
Roland Synthesizer Board	\$ 425
Enhanced Graphics Card	\$ 982
Mouse	\$ 124
GEM (software)	\$ 49
TopView (software)	\$ 149
8087 Math Coprocessor	\$ 149
Nucleus Overthruster	\$ 295
QuadRam Quadboard	\$ 795
RGB Monitor	\$ 595
Total System Price	\$6558

The PC has a little built-in speaker, but the sound is awful. And you can't match the Amiga's four-channel DMA sound anywhere in the computer world today. The best we can do is to add Roland's fine six-channel Compu-Music synthesizer board to our PC for \$425. Unfortunately, games and applications programs won't take advantage of our nifty synthesizer board. Their sound will still come out the tinny speaker. We'll have to write our own sound software if we want to play good music.

GRAPHICS

The PC comes with no video output at all, ostensibly so the user can pick a video interface that matches his needs. What we need is the newest and best graphics board IBM makes: the IBM Enhanced Graphics board, at \$982 fully equipped. The EGA allows up to 640X350 pixel resolution. Unfortunately, it is difficult to program and slows down our CPU chip tremendously; it really works better on the PC/AT. But at least many software packages are now being modified to take advantage of its capabilities.

THE RESULT

Well, now we've got an IBM PC system that has cost us \$6558. It has good sound, good graphics, a mouse-and-icon multitasking operating system, and good disk storage capacity. It is also power-hungry, slow as molasses in the Iowa wintertime, and incompatible with most of the IBM PC software on the market. It has also been expanded to near full capacity, while our Amiga is totally unexpanded and running rings around it, using only a few percent of its total capability.

Perhaps it would have been kinder to compare the Amiga to the IBM PC/AT. Its capabilities more closely match the Amiga's, but its list price is \$3995 and we'd STILL have to add almost all the options we added to the PC to make it a comparable machine (Total cost: at least \$7000). The Amiga is a genuinely top-of-the-line machine that quite simply cannot be matched by any other computer on the market today, no matter what initials are on the case. Whether the computer press, or the computer consumer, can be made to realize that is the challenge that faces Commodore now.

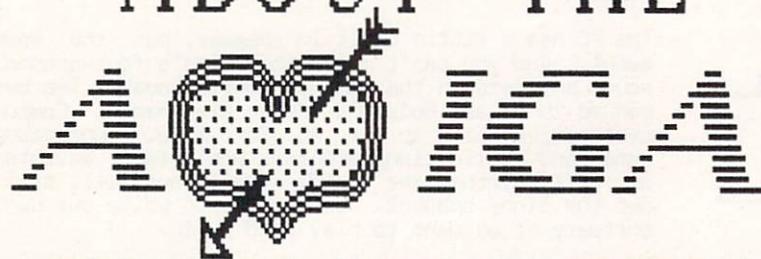
POSTSCRIPT

The answer to the question of how good a bicycle the Amiga makes is this: its \$100 IBM PC emulator, written in high-level C language, runs most of the important PC software at 70% of IBM PC speed. A \$100 add-on hardware unit available this December will make it run at 100% of PC speed. By that time, the question will be moot; Amiga database, wordprocessing, and integrated software should be available by then (these products are likely to cost considerably less than their MS-DOS equivalents, while severely outperforming them.)

You can hang a lot of expensive add-ons off an IBM PC, and you still won't have an AMIGA - you'll just have an old bicycle with training wheels (& you'll have to make the motor sounds yourself...)



THINGS TO LOVE ABOUT THE



A Technical Perspective
by: Mark R. Brown

The Amiga knocks everybody's socks off. The graphics are the best ever seen on a personal computer; the sound rivals the best digital audio stereo systems. Even the icon-and-mouse based operating system is something that your average Joe can appreciate. But once you get past the flashy appearances, what is there in the guts of this machine that the hardened computer connoisseur can appreciate? Plenty!

THE CHIPS: (EVERYBODY LIKES CHIPS)

**What is there in the guts
of this machine that the
hardened computer
connoisseur can appreciate?**

**...the capacity for up to
8 megabytes of RAM....**

**The Amiga does some
amazing things with memory.**

A look at the Amiga's spec sheets sets the technophile to drooling. First there is the machine's **68000 microprocessor**. While not the latest cpu chip off the drawing boards, the 68000 is certainly one of the best from a practical standpoint. It's been around just long enough to have a proven track record without being an antique. It's a true 16-bit cpu with a 32-bit internal bus, and runs at a speedy 7+ megahertz. The **Apple Macintosh** uses the same chip, running at the same speed. By comparison, the **IBM PC** uses an **8088 cpu**, an 8-bit chip with a 16-bit internal bus running at only 4.7 megahertz. Even the **IBM AT's 80286 cpu** is only a 16-bit chip with a 16-bit internal bus running at 6 megahertz. The addressing range of the 68000 also gives the Amiga the capacity for up to **8 megabytes** of expansion memory. This memory can be used entirely as user RAM, or a portion can be allocated as a ramdisk. The IBM PC can only handle **640K** of expansion RAM, and the AT **3 megabytes**. While the Mac could address the same memory space as the Amiga, there is no hardware provision for expanding it beyond **512K**.

The Amiga does some amazing things with memory, even in the supplied 256K. This computer's blinding speed is due mainly to its memory management techniques. The memory chips are clocked at twice the cpu's speed (or about 14 megahertz), which allows the three peripheral support chips time to access memory between cpu clock cycles without interrupting the processor. These special VLSI chips (dubbed **Daphne**, **Portia**, and **Agnes** by the Amiga tech staff) control the graphics, sound, and I/O functions of the Amiga with only minimal intervention by the cpu. These custom chips (produced inexpensively in-house by Commodore's MOS Technology Microchip Division) use **Direct Memory Access (DMA)** to directly update the video display and sound output, and to service peripherals. There are **25 DMA channels** allocated to these custom controllers, which gives them almost unlimited speed and the versatility to be virtually transparent to the rest of the system. They give the Amiga its great speed advantage over the Macintosh, which, even though it uses the same 68000 microprocessor, must use its cpu chip to handle graphics, sound, and peripherals, stealing time that might otherwise be used by applications software.

THINGS TO LOVE ABOUT THE AMIGA

These special VLSI chips give the Amiga its great speed advantage over the Macintosh.

The Amiga provides for integral multitasking...

There are routines in the operating system to handle everything the computer can do.

Even UNIX is slow compared to the Amiga.

HARDWARE: (NOBODY DOES IT BETTER...)

The Amiga has one legacy, it seems, from preceding Commodore machines: a full complement of **built-in interfaces and ports**. Commodore users take it for granted that they'll just be able to plug in any peripherals they need. IBM users have a different experience. They must add an RS232 serial card to interface a modem, or a Centronics parallel card to interface a printer, or a controller card to even plug in a joystick. The Amiga, like the Commodore 64 and VIC 20 before it, has the ports built-in. The good news is not only that are they provided, but that they are **user programmable and configurable**, so they can be matched to virtually any peripheral without the use of special adapters and cables. There are reconfigurable RS232, Centronics parallel, disk drive, and controller ports. There are also three separate video outputs providing composite video, RGBI, and analog RGB signals. The sound interface is provided via two standard RCA phono jacks, and is compatible with all home stereo systems.

The Amiga's circuit board also provides two outboard ports for expansion. One, on the front of the case, is there for memory expansion. It accepts a 256K cartridge that expands the internal user memory to 512K. The other port, on the right side of the case, brings the Amiga's full bus out to connect to an expansion chassis or to third party add-ons, like Tecmar's multifunction expansion module, which contains an extra megabyte of RAM, a serial port, a clock/calender, and a parallel port. Unlike the Macintosh, the Amiga is indeed a **fully open-architecture machine**.

Amiga's 3.5" disk drive is no slouch, either. Formatted, the disks hold 880K of data, more than all but the IBM AT's 1.2 megabyte 5.25" drives. Read and write operations are controlled by one of the three custom VLSI chips we mentioned before, with the result that a full 5.6K track can be read from or written to via a DMA channel in one disk revolution. The effective throughput delivered by this technique is on the order of 500,000 bits (62500 bytes) per second (that's the equivalent of loading the Commodore 64's entire memory in one second!) -not too shabby!

OPERATING SYSTEM: (THE BEST OF TWO WORLDS)

Many computer systems, including the Commodore 64, contain an operating system in ROM. This means that your computer is ready to run as soon as you turn it on, but it also means that the operating system is (quite literally) carved in stone, and cannot be changed. Some computers, like the IBM PC, have a small ROM which contains an auto-boot routine that loads an operating system into RAM from disk when the computer is turned on. The operating system can then



be changed and updated as easily as any application program. The disadvantage to this system is that it is quite possible to have bugs in software crash the operating system, so that it has to be rebooted from disk. The designers of the Amiga decided, apparently at the last minute, to opt for an auto-booted RAM-loaded operating system rather than an OS in ROM. This gives the Amiga future flexibility and upward compatibility with future operating system improvements and revisions. They also came up with a method that stores the operating system in an additional RAM area that is totally separated from user RAM, and which is automatically write-protected and hidden from the user once the OS is loaded in. This gives the Amiga the best of both worlds: **an operating system that can be kept up-to-date like a disk-loaded OS, but that is as inviolate as an OS in ROM.** A system reset will not wipe it out; powering down the computer is the only thing that will crash it. The OS is about 190K of code, and the Amiga has 256K of write-protectable RAM allocated to keep it in, in addition to its 256K of user RAM. **This machine actually gives you twice the memory it claims to!** It should be possible for clever programmers to worm their way into this protected area and make changes to the operating system, or to add their own routines in the write-protected RAM unused by the current operating system.

The Amiga OS is unlike any other. It provides for **integral multitasking**, not just a multitasking controller stuck on top of the code. True multitasking must be built into the way the machine does its tasks, not just juggled in from the top somewhere. While other personal computers tack multitasking on, the Amiga lives with multitasking as its resident system. **Even UNIX, AT&T's famed multitasking environment, is slow compared to the Amiga.**

The operating system, called **Intuition** by Commodore, has two user interfaces. One lets you type in command lines which the computer then interprets and processes. This is the way the IBM PC and the Commodore 64 operate. The other user interface lets you manipulate graphic icons and pull-down menus with a mouse, like the Macintosh. The user can decide which one he wants to use, or switch back and forth between the two. You can even use the icon-and-mouse version and open a screen window with the command line processor operating in it and use both interfaces at the same time! It's great to have that kind of flexibility.

There are routines in the operating system to handle everything the computer can do. Access is provided to the OS routines via Kernel-style jump tables, so C and assembly language programmers can hook into the internal capabilities of the Amiga without having to "reinvent the wheel". BASIC includes commands to handle all of the Amiga's functions, including graphics, animation, sound, and multitasking, without having to resort to machine code subroutines. **PEEKS and POKEs are obsolete** on the Amiga (though they are still allowed in Amiga BASIC).

One striking testimony to the power inherent in the Amiga's OS is its **IBM emulator**. This software program emulates an IBM PC, allowing you to run most of the popular PC software on the Amiga. And even though it is written entirely in high-level C language, it runs at 70% of PC speed. Many PC clones don't run as well. Cost? \$100. A hardware add-on to bring the PC emulator up to full speed will be available by December for an additional \$100.

GRAPHICS: (NO CONTEST)

Two of the three custom chips in the Amiga are dedicated to graphics and animation. The graphics are controlled by a custom CPU contained on one of these custom chips. It's called the **Copper**. The Copper determines the priority of the various graphic elements involved in a screen display, and routes them all to the right place at the right time. With two playfields, unlimited BOBs, and eight sprites to police, the Copper is a busy bit of silicon!

Graphics can be displayed in **five different resolutions**, up to **640X400** pixel resolution in **4096 colors**. The main graphics screen is composed of three combined elements. The first is the **playfield**. There are **five bitplanes** of information in the Amiga screen, which can be interpreted as one or two overlaid playfields. For example, if you want to give the illusion of depth in a scrolling display, you can scroll a background playfield along slowly while you scroll the foreground playfield more rapidly. The second graphics screen component is the **BOB**, or **Blitter Object**. These are graphics shapes which can be defined and overlaid on the screen by the **Blitter** (Bit-Block Transfer device). They behave much like sprites, but are actually drawn onto the graphics screen rather than overlaid on it. The third graphics component is, of course, the **sprite**. There are just eight of them, sixteen bits wide by as tall as you want them. They can contain up to three colors each. Sprites behave just as they do on the Commodore 64, hovering over (or under) the screen itself.

Operating system routines control the various graphics elements automatically. You need never worry about which sprite number you are currently using. There are even routines to automatically animate objects and groups of objects without further program intervention. And Amiga's **BASIC allows access to all of these functions!**

SOUND: (HOW SWEET IT IS)

The third custom chip controls peripheral devices and sound output. There are four channels of DMA sound, mixed and delivered as stereo output. The technique used to generate the Amiga's sound involves digitally specifying a sound's characteristics in memory, and then reproducing that digital fingerprint at playback. The operating system includes sound tables with **predefined voices**, or you can program them yourself. The Amiga, properly equipped with an additional interface, can also take in a sound source and digitize the information (**digital sampling**). The process is so good that it is possible to produce excellent speech directly (in fact, Amiga is the first PC to come with built-in, recognizable, **male & female speech synthesis!**) The text-to-speech algorithms reside in the operating system and are also available thru simple commands in BASIC.

CONCLUSION: (I COULD GO ON...)

The Amiga is one awesome piece of computer. From the chassis to the operating system, it has been designed with the future in mind. There is a lot for the technophile to love in the Amiga, but the real joy of this machine is that the advanced features and functions have been made accessible to the user, so that even those who have no real technical interest can make use of the advanced features built into it. The Amiga is, quite simply, a superior personal computer.

INFO

AMIGA

things we'd (already) like to see:

The Amiga is a marvelous machine; but nothing is perfect, and journalists are picky by nature. So let's take a moment to list the improvements that could be made to the Amiga, if cost were no object:

(1) The graphics resolution could be improved. 640X400 resolution is not pushing the limits of today's technology (though it does push the limits of inexpensive color monitors). **1024X1024 resolution** will probably be the standard for the next generation of Amigas. It should be noted that the software allows for a scrolling virtual screen of almost unlimited size in the present Amiga, so you could use a 1024X1024 screen, even though you can't display it all at once.

(2) The palette of **4096 colors** is more than adequate, but the implementation generally limits you to 32 colors at one time. We're glad the Amiga has a hold-and-modify mode that will allow you to display all 4096 colors within limitations, but it would be nice to be able to access them all directly, in all resolution modes.

(3) The software nicely gets around the limitation of 8 hardware sprites, but **64 sprites** sounds like a better number to me. The horizontal resolution limitation of 16 pixels could be expanded, too, preferably to unlimited width.

(4) The graphics architecture features five bitplanes of information that can be combined to provide one or two independent overlaid multicolor playfields. The capability to use them individually for up to **five overlaid monochrome playfields** would have been marvelous. But two is a nice compromise for now.

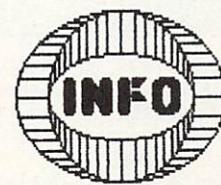
(5) The standard Amiga has 256K of memory. We think time will establish **512K** as a more acceptable figure, especially since the graphics and user RAM are shared in the basic machine. Most Amiga users will probably want to upgrade to take advantage of the full capabilities of this computer.

(6) The Amiga is capable not only of multitasking, but **multiusers**. There is now no provision to take advantage of this capability. We would like to see Commodore come up with an **AmigaNet network** that would use C128s as user terminals to access an Amiga equipped with a printer and a hard disk. This would allow users to exploit the full potential of the Amiga, and would sell a lot of C128s for Commodore, too! (Unconfirmed sources say that an Amiga network is on the drawing board.)

(7) About that keyboard: it's wonderful that the Amiga is using the industry standard Selectric keyboard layout (something IBM has been heavily criticized for NOT doing) but why on earth didn't they use the extra space above the numeric keypad to include the missing three math operators (you know, add, multiply, & divide) ??? Just imagine how happy an accountant is going to be using a **warp-speed spreadsheet** with a keyboard that makes him/her grope around the keyboard looking for those oft-used symbols that should be wrapped around the number pad. This is an unbelievable oversight on a machine which is, in every other respect, so well thought-out! This may actually be the single worst flaw in the Amiga design.

(8) It is almost criminal of Commodore/Amiga to introduce a machine like the Amiga without simultaneously introducing a low-cost **laser printer**. The fact that the Amiga is virtually begging to be used as a self-contained magazine-making machine has not been lost on us at INFO, but we will need publishing software (3rd parties will surely rise to the occasion) and full-featured laser printers at Commodore-scale prices (get to work on it, C/A !)

Those are our initial thoughts. We're sure we'll see more as we work with the **Amiga**. It's interesting to note that all but the last suggestion have been relieved to some extent by the design of the machine: either software compensates for shortcomings by allowing for emulation of better features, or hardware provides for expandability. Commodore/Amiga has done a wonderful job this time of anticipating user needs and desires; the more we look at this machine, the more respect we have for it.



WHAT OTHERS ARE
SAYING ABOUT THE

✓ **AMIGA**

THE GOOD

The new **AMIGA** personal computer from Commodore International is a machine to rekindle the enthusiasm that drives personal computing...Dazzling graphics and sound and an open expansion bus make the **AMIGA** the intellectual and technical heir to the Apple II...All the dazzle does nothing to inhibit the **AMIGA**'s performance in any serious application.

Phil Lemmons
Editor in Chief
Byte Magazine
August 1985

This editorial treatment from Byte is in sharp contrast to the way they have effectively ignored Commodore computers for years. Obviously, the **AMIGA** is too good for the mainstream personal computer press to ignore, no matter whose logo is on the case.

The interlocking features of the **AMIGA**...point to a complexity of hardware design that we have not seen before in personal computers. (It's interesting to note that the Macintosh's complexity is in its software and that, according to several third-party developers who have used both computers, the Macintosh is harder to program.)

Williams, Edwards & Robinson
"The **AMIGA** Personal Computer"
Byte Magazine, p. 83
August 1985

This article is the most comprehensive and informative technical article to date on the **AMIGA**.

AMIGA makes real what had previously been only a vision in the microcomputing world. Before the **AMIGA**, such power, speed, sound, color, and animation capabilities weren't commercially available for under \$20,000. Now, everyone will have an opportunity to experience this computing breakthrough.

Steve Twombly
Publisher
AMIGA World Magazine
Premiere Issue

Obviously, Mr. Twombly is not going to bite the hand that feeds him. The unusual thing about this comment is that we've found it restated in much the same glowing prose in the majority of the published commentary about the **AMIGA**, and from a wide cross-section of people who don't have their livelihood tied up in the machine. The main curiosity about his comments is that they aren't more glowing than the rest, but are representative of the norm.

In emulation mode the **AMIGA** can run about 75 percent of all IBM PC software, even some of the tough ones like Lotus 1-2-3 and Flight Simulator....Commodore claims that the **AMIGA** can run all of the PC software in the Softsel Top 20 list.

Computer Buyers' Guide and Handbook
"Commodore **AMIGA**"
November 1985

CBG&H cites an important aspect of the **AMIGA**'s IBM PC Emulator program: that it will run the top programs for the PC. Not all, but the best, including Lotus 1-2-3. Even a 99 percent IBM PC emulator would be of no use if the one percent it omitted were the most useful few PC programs. Fortunately, the **AMIGA**'s emulator handles all the best sellers. That will be an important factor in the transitional phase. We've heard of one corporate purchaser who had pre-approval to purchase IBM PC-compatible computers; after seeing the **AMIGA** in New York, he ordered PC-compatible **AMIGAs**!

I am glad that quality features, such as the **AMIGA** has, are being pursued (by manufacturers) after so long a time in which PCs deviated from their initial direction in the name of productivity. My hopes are that the basic structure of the **AMIGA** will remain static for a decade and that related forms of support, including software packages, will abound. A product such as this one goes a long way toward (finally) realizing practical technology. Therefore, trade-offs and rapid knock-offs or changes are less likely.

Steve Wozniak
cofounder of Apple Computer

The Woz is a notorious technology junkie, and naturally the **AMIGA** appeals to his sense of wonder no matter who makes it. It's no secret that he left Apple over their decision not to produce his new wonder computer, the Apple IIX. I'm sure he's right about the **AMIGA** setting a new standard, and I'm equally sure that he wishes his machine had been the one to do it.

It's the first piece of technology to truly demonstrate to the world that the computer is a new kind of medium. We've always had this vision of the computer as a new medium, a media machine, like the VCR, television, or stereo. The **AMIGA** fulfills this vision because it, too, is a media machine.

Bing Gordon
Electronic Arts

Is this computer really that different, that it could be a whole new medium, a whole new way of looking at things? Read on.



THE GOOD

It's a challenge to software companies to think in entirely different ways. For the first time ever, we've got a much less limited platform on which to work, whereas before, we couldn't fully realize the things we wanted to do. With the **AMIGA**, you've got two important concepts. First, you'll see applications emerge that were never before possible, and second, and equally revolutionary, you'll see entirely new approaches to applications that already exist, especially in vertical market software.

Brian Lee
Synapse Software

The software people love this machine because it opens the doors for them to do what they always imagined, but couldn't transfer into the machine.

The **AMIGA** will gain the kind of widespread acceptance that we never imagined another machine could have. It's going to be the next Apple II.

Bobby Kotick
Chairman
Arktronics

This argument seems to crop up a lot. The Apple II was the first home computer to exploit color and graphics. It was revolutionary. The **AMIGA** has that same kind of feel, of wonderful new horizons opening up.

Next to the **AMIGA**, the ST is pale in comparison. **AMIGA**'s colors are brilliant; Atari's are pastel. **AMIGA**'s capabilities definitely outshine the ST, the Mac, the Mac XL, and everything else I've seen to date.

Dr. Eydie Sloane
The Sloane Report
July/August 1985

In a side-by-side comparison, we concur that there is no comparison of the **AMIGA** to any other personal computer. We should be able to present a hands-on look at the **AMIGA** vs. the Atari ST next issue.

The **AMIGA** is an important product. We see a significant, lasting change in the way computers will be used and programmed....with the introduction of the **AMIGA**....and the ST from Atari, consumer computing will never be the same again.

Lock & Mansfield
Editors
Compute! Magazine
September 1985

We'll argue the significance of the ST. It's highly touted as a "color Macintosh", yet it addresses only two of at least seven significant problems with the Macintosh, color and price. The **AMIGA** capably overcomes these two problems, and also addresses the Mac's difficulties involving cpu speed, disk storage capacity, disk access speed, expandibility, and PC compatibility. The ST still suffers from all of these problems. Add in the complete lack of any software to run on it, and the ST deflates into the fancy game machine it really is.

There is not much use in trying to describe the **AMIGA** much more than we already have....The fact is that until you see and hear it in operation, you cannot know what it really is.

John J. Anderson
"AMIGA: The Message is the Medium"
Creative Computing
September 1985

Here the nail is hit on the head. Until you experience an **AMIGA**, you can't imagine what it's like. It is so different than your average computer.

Imagine, if you can, a computer that is capable of doing almost anything you could dream of wanting to do....Welcome, dear friends, to the world of the **AMIGA**.

Randy Chase
Publisher
The Guide
July 1985

This is about the most reserved comment that Randy has made to date about the **AMIGA**. I've got to admit, we feel the same way about it: it's a Dream Machine.

THE BAD

The **AMIGA**, at \$1,295, seems designed primarily for the home user, though with the right software there's nothing stopping you from using it in your business. In fact, compared to the existing heavyweight, the IBM PC, the **AMIGA** will process words, numbers, and other data faster and more efficiently....All this talk of fancy hardware, color, and easy-to-use software is fine, particularly if you're into games (which will be in plentiful supply). But so far, there are no worthwhile business programs available for the **AMIGA**. It'll take time for these programs to come out, but it will happen. The **AMIGA** is too powerful for software publishers to ignore. The speed at which the **AMIGA** operates makes way for incredibly fast programs.

"Commodore **AMIGA**"
Computer Buyers' Guide & Handbook

The **AMIGA** seems to confuse people. Since it's from Commodore, they want to classify it as a "home computer", though Commodore has promoted it as a personal and small business machine. The article quoted here never seemed to make up its mind about the **AMIGA**; they were obviously sold on the machine, but weren't sure whether they should really step out and call it a good business computer. Many others seem to have had the same problem.



THE BAD

...few software houses attended the opening and few have said they would be designing programs to run on the machine.

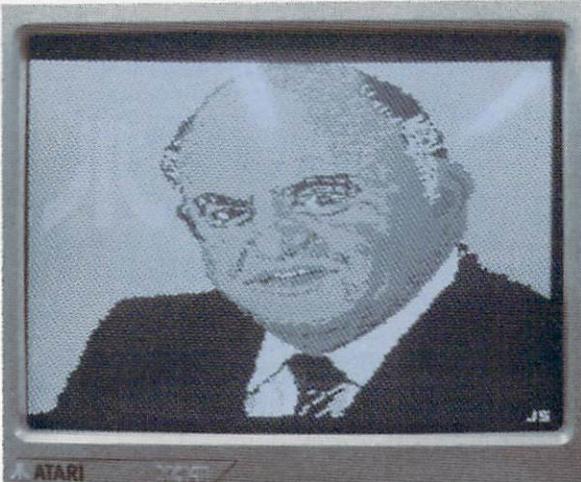
USA Today
July 24, 1985, p.24

This comment was taken from the comprehensive one-paragraph article that USA Today hid on page 24 to trumpet the arrival of the **AMIGA**. A cover story the day before the announcement said "But is the market ready for the MTV of computers, a machine that can growl in stereo like an electric guitar and brilliantly animate color pictures?" I don't know about you, but this is the way I want all my news in the future: front-page speculation the day before an event, followed by a succinct paragraph once the facts are in. By the way, the **AMIGA** premiered with more software packages completed and ready-to-run than any personal computer in history.

THE UGLY

The introduction of new machines and operating systems is healthy for the industry. The user is intelligent enough to choose the better operating system. A customer will buy an Atari ST machine because it is a better machine for a lower price. That is our slogan--power without the price.

Jack Tramiel
Chairman of the Board
Atari Corporation
Former Chairman & CEO
Commodore International



I hope "Uncle Jack" is right on this one. Considering the long and costly court battle he and Atari went through to try and obtain the rights to produce the **AMIGA** instead of Commodore, HE obviously knows which is the better computer!

High-tech features can be dazzling, but when it comes to laying out one's own cash, the user-benefits from a tried and proven product, from a highly reputable manufacturer are still tremendously important. While their focus (Atari and Commodore) on graphics is an endorsement of the user interface concepts introduced by us, we do not see a great future for our company in trying to establish ourselves as just a consumer marketer. There is no evidence yet that consumers will be willing to pay high enough prices for dazzling graphics to make such products profitable for both the manufacturer and the dealer.

John Sculley
President and CEO
Apple Computer

This comment really begs to be analyzed line by line, so here goes: (1) Sculley's snipe at Commodore, implying it is not a "highly reputable manufacturer" is in incredibly bad taste. Commodore definitely has a "low-end" image to live down, but they've been in business and delivering product longer and in larger quantities than Apple has. In fact, last year (when both were still turning a profit--they're both losing money now) Commodore reported profits of \$144 million on sales of \$1.3 billion, compared to Apple's profit of \$64 million on \$1.5 billion in sales. Apple and Commodore are not only in the same game, they are in the same ballpark. (2) Apple did not introduce the "user interface concepts" involving icons and windows that is used in the Macintosh, but borrowed them themselves from Xerox Corporation's Star System and Smalltalk environment. (3) Apple is a "consumer marketer" just like Atari and Commodore. They have failed miserably to get the Mac into the Fortune 5000 companies, and shamelessly snub their own Apple IIe, whose sales are still paying the rent at Apple Computer headquarters, because they want to have a "corporate" image like IBM. (4) The only ones willing to "pay high enough prices for dazzling graphics" in the Mac have been home users, and they've paid a lot more for its small black and white screen image than **AMIGA** owners will be paying for full color. (And, we should add, got a lot of other headaches in the bargain.) I think Sculley's afraid of a good, inexpensive "color Mac" of the calibre of the **AMIGA**, and is doing his best to help fortify Commodore's "low-end" image.

I'd like to know how many businessmen design bouncing balls or write music.

C. Roger Lewis
ComputerLand Corp.

A true visionary.

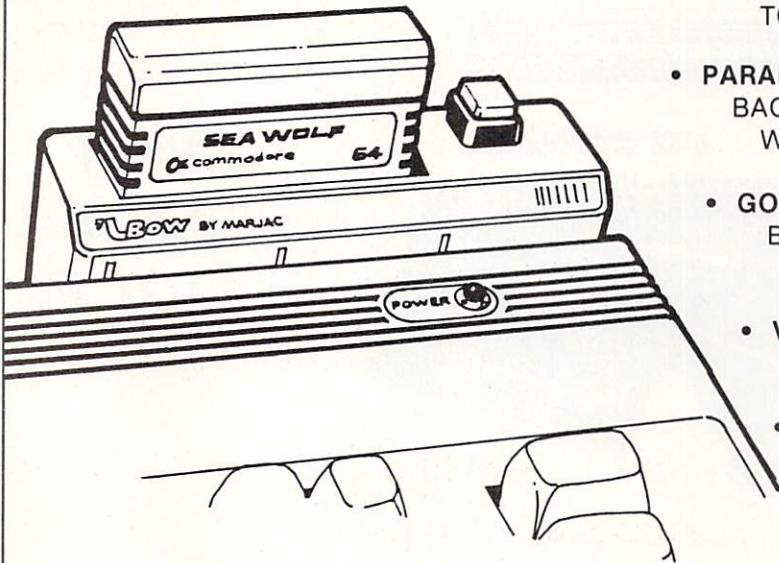
We believe the leading edge is often the bleeding edge in this business. We'll wait until the product has proven itself.

James J. Edgette
Entre Computer Centers Inc.

A prime example of the hearty pioneer spirit that made this country great.



'LBOW™

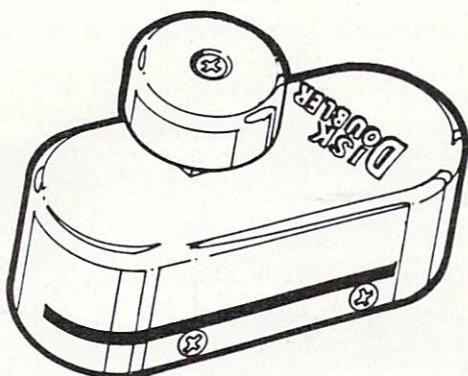


**CARTRIDGE PORT CONVERTER
CUSTOMEDESIGNED FOR
COMMODORE 64 COMPUTER**

- BUILT-IN "WARM RESET" BUTTON WILL ELIMINATE TURNING POWER OFF/ON TO RESET THE C-64 MICROPROCESSOR, THUS ADDING TO RELIABILITY.
- PARALLEL EXPANSION PORT ON L'BOW'S BACKSIDE ALLOWS SIMULTANEOUS HARDWARE & SOFTWARE ACCESS.
- GOLD COMMAND® PROGRAM RECOVERS BASIC PROGRAMS OTHERWISE LOST DURING COMPUTER RESET.
- VERTICAL CARTRIDGE PORT MAKES CARTRIDGE USE MUCH EASIER.
- NO MORE STRESS ON THE COMPUTER'S PRINTED CIRCUIT BOARD FROM THE PRESSURE OF PLUGGING IN CARTRIDGES SINCE 'LBOW PUTS IT ALL ON THE TABLE TOP.

DEALER/DISTRIBUTOR INQUIRIES WELCOME

DOUBLES STORAGE SPACE OF MOST 5 1/4" SINGLE-SIDED DISKETTES. COMPATIBLE WITH DISK DRIVES FOR COMMODORE, ATARI, APPLE, FRANKLIN



DISK DOUBLER®

- CUTS A PRECISION SQUARE NOTCH IN THE DISKETTE AT EXACTLY THE RIGHT SPOT SO THE "FLIPSIDE" CAN BE USED.
- HIGH TORQUE ROUND ACTIVATOR MAKES IT EASY TO USE BY EVERYONE.
- SMOOTH, DEEP-BLUE ENAMELED FINISH IS BEAUTIFUL AND EASY TO TOUCH.

ORDER FORM

'LBOW(S) AT \$19.98 (Wis. Residents \$20.88) \$ _____

DISK DOUBLER(S) AT \$9.88 (Wis. Residents \$10.88) \$ _____

PLEASE INCLUDE CHECK OR MONEY ORDER FOR TOTAL \$ _____

NAME _____

STREET: _____ APT. # _____

CITY: _____ STATE: _____ ZIP: _____

**Send Check or Money Order
(No C.O.D.s) TO:**

Direct Marketing Div., T.I.E., Ltd.
2061 West Mill Road
Glendale, Wisconsin 53209
Telephone: (414) 352-4000

Commodore 8023P

HIGH SPEED 15½" WIDE CARRIAGE PRINTER

THE BEST PRINTER VALUE EVER!

**CALL
TODAY!**



**NEW
LOW
PRICE!**

- 15 ½", 136 to 250 column carriage
- 150 characters per second
- Full **C** graphic/reverse characters
- Tractor OR friction paper feed
- 5 x 8 dot matrix with TRUE descenders
- Internal microprocessor control
- Internal RAM for downloading custom graphics and formatting output

- 1 MILLION character cartridge ribbon
- 100 MILLION character print head life
- Built-in diagnostics and self-test
- Handles thick three-part forms
- Programmable line spacing
- COMPLETE 50-page user's manual
- Condensed and Near Letter Quality modes
- Completely programmable print format

Fully compatible with word processing, database and other business and personal software! *Commodore 64 requires an IEEE interface. PET/CBM computers need no interface.*

The **8023P** is available **NOW** from Progressive Peripherals & Software, your quality software and hardware source. *Call or write for pricing and the name of the dealer nearest you. . .*

ACT NOW, QUANTITIES ARE LIMITED!

Progressive Peripherals & Software, Inc.

2186 South Holly, Suite 200

Denver, Colorado 80222

(303) 759-5713

TELEX: 888837

TWX: 9109971314

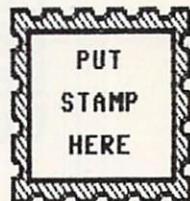
VISA



Commodore 8023P is a registered trademark of Commodore Business Machines, Inc.



Fold on dotted line / tape shut
affix stamp / mail today!



READER CONSENSUS
PO BOX 2300
IOWA CITY, IA 52244



READER INPUT

You will notice that many products in the product roundup remain unrated. The reason is simple: with a staff of 3, we have to be very selective, focusing on items that we feel are the most important and interesting. Here's your chance to participate in the INFORMATION AGE: if you see an unrated product which you feel qualified to rate, please fill out the form below, cut this page out, fold and mail it to INFO. If we get 5 or more ratings on a product & at least 4 of them are in agreement, we will enter a "reader rating" for that product in future roundups. -B.D.

HELP



Reader Consensus Rating Form

Product _____

Company _____

Category _____

Rating _____

Comments _____

Similar Software You Have Used:

Your Name _____

City/St. _____

Phone _____

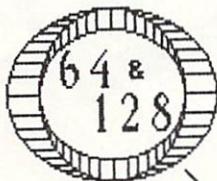
Qualifications:

Cut on dotted line —

PRODUCT ROUNDUP

FALL 1985

INDEX



CPM

AMIGA

SOFTWARE

Arcade & Action Games.....	63	...	124
Business Accounting.....	37	114	122
Conventional Games.....	69	...	124
Database Managers.....	45	117	122
Disk Copiers.....	58	...	...
Educational (advanced)....	89	...	...
Educational (general)....	86	...	...
Educational Games.....	80	...	126
Graphic Adventures.....	72	...	125
Graphics.....	46	...	122
Integrated Software.....	36	114	121
Misc. Recreational.....	85	...	...
Misc. Software.....	92	120	126
Music Hardware.....	49	...	...
Music Software.....	49	...	123
Personal Finance.....	40	115	...
Personal Enrichment.....	52	...	...
Programming Tools.....	54	...	123
Programming Languages.....	55	118	123
Spreadsheets.....	42	116	122
Strategy & Simulation.....	74	...	125
Teaching & Admin.....	90	...	...
Telecomputing Software.....	51	118	123
Text Adventures.....	70	...	125
Utilities.....	60	119	...
Wordprocessing.....	43	116	122

Once again we are proud to bring **INFO** readers the most comprehensive reference guide to **Commodore** products available anywhere for any price!

We have tried to make this guide as complete and current as possible, but with so many products there are sure to be some mistakes (for instance, the listing for COMAL 2.01 comes at the end of pg. 54, just before the heading for languages!) This time we have provided a mechanism for readers to not only catch and correct our mistakes for the benefit of future roundups, but also to participate in the rating and review process via a **READER CONSENSUS** rating form (see page 34). With your help, and only a few minutes of your time, we will be able to make the **ROUNDUP** a truly cosmic work from which all may benefit.

HOW TO USE:

Entries are listed in the three groups by category. Under each category, products are (for the most part) arranged in order of star ratings (highest first) and then alphabetically. **UNLESS SIGNED OTHERWISE, THE COMMENTS PRINTED WITH THE ENTRY ARE THOSE OF THE MANUFACTURER** (buyer beware). Where we have supplied the comments, the initials of the commentator will appear. (Note all artwork and photos in the roundup were provided by the manufacturers)

Below is the standard format for a typical entry.

PRODUCT NAME C64 C128 CPM Amiga
Manufacturer Tape Disk ROM
\$Price Format 1 to 5
for: MACHINE *RATING* Stars
 These comments about the product are from the manufacturer unless noted below.
 --(Author) BD Benn
 MB Mark
 Staff

HARDWARE

Data Acquisition & Ctrl.	100	...	...
Displays.....	106	...	...
Gadgets, Cables, & Etc.	102	...	...
Input Devices.....	105	...	127
Interfaces.....	96	...	126
Mass Storage.....	101	...	126
Miscellaneous Hardware..	108	...	...
Printers.....	107	...	...
Sensory Peripherals.....	104	...	127
Telecomputing Hardware..	99	...	123

INFORMATION

Books.....	112	...	...
Information Services....	110	...	...
Magnetic Information....	113	...	...
Periodicals.....	110	...	...

INTEGRATED SOFTWARE



One software package incorporating several applications, usually spreadsheet, database, and business graphics.

Vizastar

Solid State
\$ 119.97 Disk & ROM ****
for: C64 C128

1000 x 64 cell spreadsheet with 10k RAM available (14k with the XL8 version for extra \$\$\$). Powerful spreadsheet commands, windows, DBMS, graphics, pie and bar charts, menu-driven and easy-to-use. Need we say more than it's the C64's answer to 1-2-3!
(-Staff) See review, Issue #7

Magic Desk

Commodore
\$ 49.95 ROM ***
for: C64

Introduced back in the days of ICON-mania, Magic desk turned out to be more HYPE than HELP.
(-Staff)



CCI Bottom Liner (serial)

Clockwork Computers
\$ 84.95 Diskette
for: C64 C128

Similar to the 'CCI Bottom Liner Plus (IEEE)' but for serial connect disk drives.

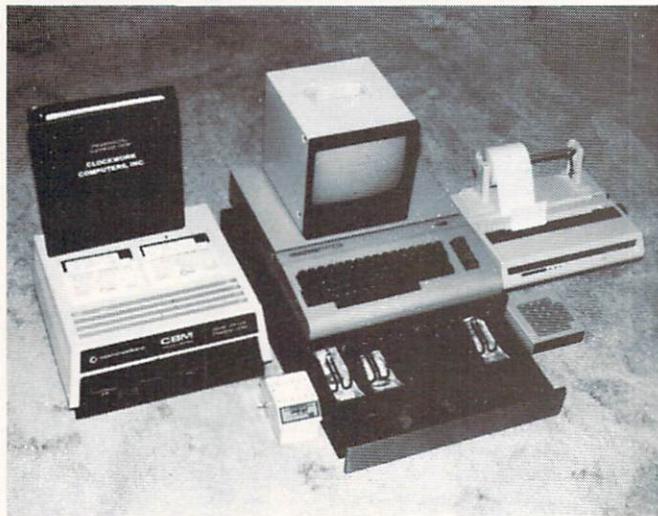
>>> Circle Reader Service No. 10 <<<



CCI Bottom Liner Plus (IEEE)

Clockwork Computers
\$ 154.95 Diskette
for: C64 C128

An expandable accounting system (single or double entry) for home or small business. Prints checks, invoices & statements; computes cash flow, bank balance, trial balances, accounts receivable, and net worth. Manual includes several examples. Requires a C64, C128 or B128; two 1541s (or equivalent) or 8050 or SFD1001.



CCI Merchandiser Plus (IEEE)

Clockwork Computers
\$ 399.00 Diskette
for: C64 C128

A complete POS system for retailers and distributors for handling cash, checks, credit cards, COD, charge sales and refunds. Adjusts up to 5000 inventory items as you make sales. Includes invoicing, price tagging, accounts receivable, sales & profit forecasting. Requires a C64, C128 or B128, 8050 or SFD1001 drive, a C-Link-2 I/F and a okidata printer. Cash drawer optional.

>>> Circle Reader Service No. 11 <<<

HomePak

Batteries Included
\$ 49.95 Diskette
for: C64

Word processing, information management and telecommunications on a single disk. Programs work with each other.

Intelligent Software Package

Intelligent Software
\$ 35.00 Disk or Tape
for: C64 C128

22 useful programs for the home or office on one disk. Includes database, word processor, spreadsheet, report generators, checkbook, inventory, loan and more.

Jane

Commodore
\$ 75.00 Diskette
for: C64 C128

A mouse & icon based integrated system: wordprocessing, spreadsheet and filing, all on one screen at the same time. Available for the C64 and C128 with both versions under \$75.00.

SuperClerk

Kobetek Systems
\$ 79.95 Diskette
for: C128

A new package under development by Kobetek Systems for the C=128. Word processor, filing functions (simple database), calculator, typewriter, and accounting functions. User friendly and programmable.

Supershipper

Progressive Peripherals
\$ 99.95 Diskette
for: C64

Complete multi-printer shipping system. Stores info for up to 800 customers, 500 invoices, and 200 products on each account and invoice disk. Prints invoices, COD tags and shipping labels. Sorts customers and products for printing lists.

Total Writer

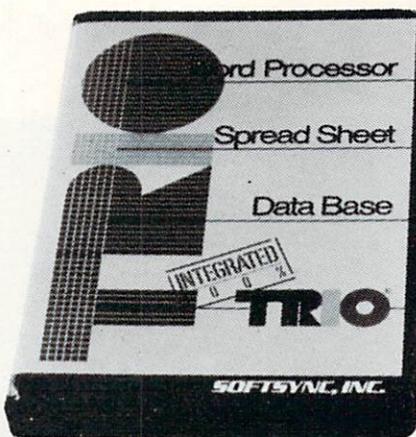
Total Software
\$ 79.95 Diskette
for: C64

Fully integrated word and data management system. Provides a 24,000 word spelling checker (with room for 10,000 customized words).

Typro-64

Input Systems
\$ 59.00 Diskette
for: C64

Data base and word processor. Mail merge, labels, sorting, acoustical phone dialing from database and more.

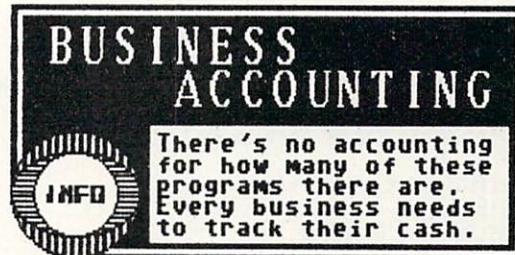


TRIO

Trio

SoftSync
\$ 69.95 Diskette
for: C64 C128

Offers the three most essential computer programs (word processor, spread sheet and data base) on a single disk. Full integrated so information can be exchanged between programs. Each program has continuous on-screen commands for easy reference. Plus pull down help windows for instant on-screen help in progress.



Accounts Payable/Checks

Commodore
\$ 49.95 Diskette ***+
for: C64

Commodore's somewhat stripped-down version of the Info Designs package. (-B.D.)

Accounts Receivable / Billing

Commodore
\$ 49.95 Diskette ***+
for: C64

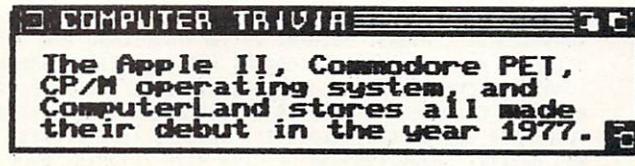
Commodore's somewhat stripped-down version of the Info Designs package. (-B.D.)

Cash Management System

Computer Ease
\$ 40.00 Diskette ***+
for: C64

Cash accounting system. For small businesses, professional or personal accounting needs. Covers expense, income, a/r, and cash accounts at month end and more.

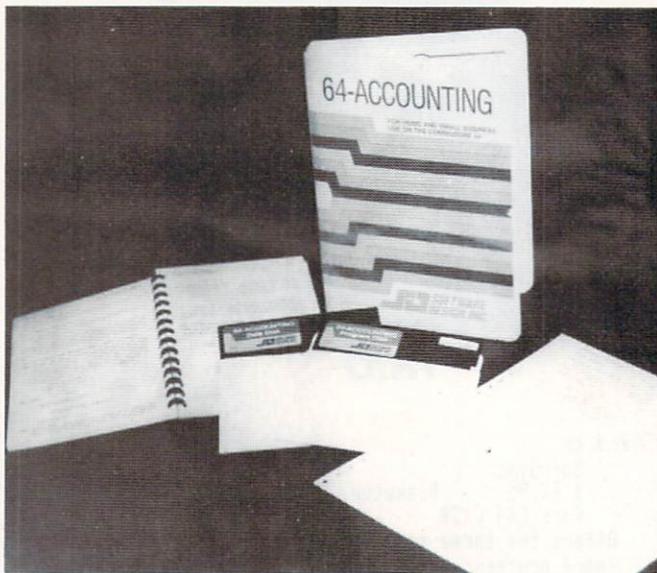
(-Staff)



General Ledger

Commodore
\$ 49.95 Diskette ***+
for: C64

Commodore's somewhat stripped-down version of the Info Designs package.
(-B.D.)



64-Accounting

Software Design
\$ 69.95 Diskette
for: C64

'Versatile and easy to use' system designed for personal and small business accounting. General ledger with a mini-accounts receivable/payable. Provides financial statements, detailed trial balances, check writing, statement printing, and check book reconciliation.

>>>> Circle Reader Service No. 3 <<<<

Accountant, inc.

SoftSync
\$ 59.95 Diskette
for: C64 C128

Small business accounting package, includes sales analysis, accounts receivable, profit/loss statements, income/expense statements. A complete general ledger, accounts payable/receivable and inventory management system. Generates sales purchase, cash receipts, disbursements journals and a multitude of reports.

B.E.S.T. Accounts payable

B.E.S.T.
\$ 59.95 Diskette
for: C64

Easy to use payables system, with automated file creation, screen guided data entry, check writing for one or all end-of-month checks. Maintains last 45 active transactions for each of 100 accounts per data disk. Integrates with BEST's General ledger.

B.E.S.T. Accounts Receivable

B.E.S.T.
\$ 59.95 Diskette
for: C64

Easy to use receivables system, with automated file creation, screen guided data entry, interest charges and statement (billing) printing. Maintains last 45 active transactions for each of 100 accounts per data disk. Integrates with BEST's General Ledger.

B.E.S.T. General Ledger

B.E.S.T.
\$ 69.95 Diskette
for: C64

A complete ledger with 200 g/l accounts. Automated check writing, and posting to a/r, a/p, and g/l accounts. Includes year end reports and 24 month histories. For one or two drives.

B.E.S.T. Inventory Management

B.E.S.T.
\$ 69.95 Diskette
for: C64

A complete system for managing up to 1500 inventory line items per data disk, with recall of any item in less than 2 seconds. Screen guided data entry, print invoices and purchase orders using standard forms and more. 1 or 2 drives.

B.E.S.T. Project Planner

B.E.S.T.
\$ 89.95 Diskette
for: C64

Complete easy to use professional quality project planner. Time constraints planning for large or small projects, with flexibility for re-evaluating schedules, and to identify and respond to changes in project implementation.

Bec

Lawco
\$ 29.95 Diskette
for: C64

Computes the break even point for new products using expense data and the sales price to break-even quantity or the expense data and the quantity produced to compute a break even sales price.

Bottom Line

Midwest Software
\$ 35.00 Diskette
for: C64

A simple general ledger program for home, school or business. Up to 99 different account titles may be defined. Approximate capacity of 80,000 entries with additional data disks.

BSC Bookkeeper

Business Systems & Conversions
\$ 39.00 Diskette
for: C64

Complete record keeping system developed by a CPA. Menu controlled, records always in balance, no accounting training needed. Automatic monthly and year-end close. Current bank balance instantly available at all times. And lots more.

Business Ware Series

Peripherals System of America
\$ 29.95 Diskette
for: C64

5 accounting programs for \$29.95 each, Business Man, Bill Collector, Bill Payer, Pay Master, and Widget Tracker.

CCI Invoice/Statement & Acct.

Clockwork Computers
\$ 154.95 Diskette
for: C64 C128

Consists of 2 disks. Disk#1 is for invoicing and printing spread sheet statements for situations where identical commitments and invoice items are billed to multiple clients. Disk#2 is a full accounting system to handle all income, expenses, assets, liabilities, and equity. Requires C64 or C128 with 2 1541s, 8050 or SFD1001 drive.

CCI Mortgage

Clockwork Computers
\$ 154.95 Diskette
for: C64 C128

Based on the CCI Bottom Liner program with the additional function of posting mortgage payments for up to 98 mortgages per disk. Client file maintains address, phone number, pertinent mortgage data, etc. Provides amortization and loan schedules. Requires C64 or C128, two 1541s (or equivalent), 8050 or SFD1001.

CCI Property Rental

Clockwork Computers
\$ 79.95 Diskette
for: C64 C128

A complete unit rental management package, that can search for availability, make reservations for specified times and calculate rental charges. Maintains agents, owners, and unit files. Prints invoices and statements with aging, income and expense reports. Requires C64 or C128, a single 1541, and printer.

CMS Accounting System

CMS Software
\$ 179.95 Diskette
for: C64 C128

Integrated general ledger, accounts receivable/payable, billing, job costing, and payroll.

ESI Time Biller

Electronic Software Inc.
\$ 89.00 Diskette
for: C64

Complete time accounting and client billing system used by attorneys, accountants and consultants. User definable activities and expense codes, multiple billing rates, pre-billing review and more.

Fab Business

Fabtronics
\$ 47.95 Diskette
for: C64 C128

Invoice, packing list and mail labels in plain paper or commercial format.

Fill-a-form

Fabtronics
\$ 19.95 Disk or Tape
for: C64 C128

Printout of many business/commercial forms.

Inventory D-Base

Fabtronics
\$ 27.95 Diskette
for: C64 C128

Inventory program with extensive report capabilities, including pricing variations.

Invoicer V2.0

MiccaSoft
\$ 59.95 Diskette
for: C64

Fast and simple invoicing program. Create a database of accounts and stock items which can be recalled while invoicing. Custom modifications available.

Mini-Ledger

Paradigm Consultants
\$ 150.00 Diskette
for: CP/M

Ledger program for small businesses.

Money Manager

Timeworks
\$:na Diskette
for: C64

A series of easy to use management information reports flexibly designed to accommodate all small business and medium sized business requirements. 16 budget and actual categories can be entered on monthly basis for 1 year period.

MP+ 2.0

Lawco
\$ 39.95 Diskette
for: C64

Management planning that allows the user to set objectives, define the activities needed to reach these goals, and identify the resources required for each activity.

Retail Invoice

CodeWriter
\$ 19.99 Diskette
for: C64

Contains everything a retail invoice should, allows for point of sale invoice.

Sales Force

Batteries Included
\$:na Diskette
for: C64

Unique sales management program that takes care of the administrative details for you, client files, report generating, memos and mailing labels.

Small Business Applications

CodeWriter
\$ 19.99 Diskette
for: C64

Three separate programs for 19.99 each for the small businessman. Includes Accounts Receivable, Accounts Payable, and Payroll Program.

Small Business Inventory

CodeWriter
\$ 19.99 Diskette
for: C64

Fields include: stock number, date, desc., shipped to/received from, quantity ship/received, cost, totals and more.

Supershipper Accountant

Progressive Peripherals
\$ 79.95 Diskette
for: C64

Use with the Supershipper to print sales, receivable and inventory control reports and bank deposits.

Tenant File

Fabtronics
\$ 19.95 Disk or Tape
for: C64 C128

Maintains a record on each tenant with 22 fields of info.

Totl. Business 3.6

Totl Software
\$ 95.00 Diskette ****
for: C64

Integrated small business accounting package: a/r, a/p, inventory, invoices, statements, purchase orders. Interfaces with totl's general ledger, label and database programs. A top quality package with product files, tax files, etc. Well documented.

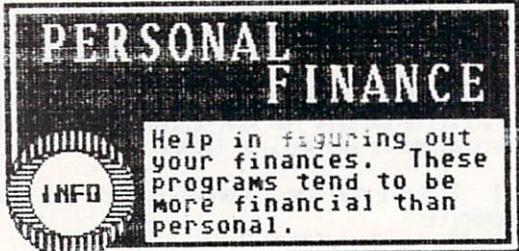
(-B.D.)

Totl. Ledger 3.6

Totl Software
\$ 44.95 Diskette
for: C64
Can be used stand alone or with totl.business.
Maintains 12 months of business data and produces
trial balances, balance sheets, income & expense,
profit & loss statement reports.

Utility File

Fabtronics
\$ 27.95 Disk or Tape
for: C64 C128
Meter reading data processing program to calculate
usage, store and print results including daily
averages and totals.



Certified Personal Accountant

Progressive Peripherals
\$ 79.95 Diskette ****+
for: C64
This is the easiest to use, best documented, sensibly
put together personal finance package we have seen
yet. Gives you a real sense of confidence and guides
you sure-handedly thru all phases of set-up and
routine use. Extensive help screens & tutorial.
Formerly marketed by Sundex.
(-B.D.)

Financial Cookbook

Electronic Arts
\$ 49.95 Diskette ****+
for: C64
One of the handiest little packages for the average
person trying to figure out whether to buy/rent or
save/invest, etc. I used this recently during the
sale and purchase of our home and will use it before I
buy a car or open a money market account.
(-B.D.) See review, Issue #4

Complete Personal Accountant

Future House
\$ 79.95 Disk or Tape ****
for: C64
A solid set of personal finance tools, includes a
unique self-running demonstration program on the
flip-side of the disk, which makes first-time fairly
painless.
(-B.D.) See review, Issue #2

Personal Accountant

SoftSync
\$ 34.95 Diskette ***-
for: C64 C128
Double entry bookkeeping/ maintain checkbook, credit
cards, loans/reports including trial balances,
profit/loss, expense vs. income, assets vs.
liabilities. Amortization tables and address book
functions.
(-B.D.)

The Home Accountant

Continental Software
\$ 79.95 Diskette ***+
for: C64
This could be an excellent package, unfortunately, the
product in it's present condition can not be
recommended: slow disk-accessing routines result in
unacceptably long delays during routine processing.
(-B.D.) See review, Issue #2

Amort-64

Input Systems
\$ 29.95 Diskette
for: C64
Amortization program that displays to screen or
printer for hardcopies.

Cost&Value of Retirement Fund

Perfas
\$ 48.00 Diskette
for: C64
The centerpiece of the software package is the book,
who's core is a set of calculation procedures that
enable the reader to evaluate the cost and value of a
retirement or savings fund, taking into account
investment return, taxes, and inflation over the life
of the fund. Program executes all the book's
calculation procedures allowing the user to
concentrate on the tutorial.
>>>> Circle Reader Service No. 12 <<<<

Course I: Investments

Wizards
\$ 54.95 Diskette
for: C64
Numbers oriented course for serious real estate and
stock market investors. Includes 120 page text,
investment newsletter, and accounting tutor.

Electronic Checkbook

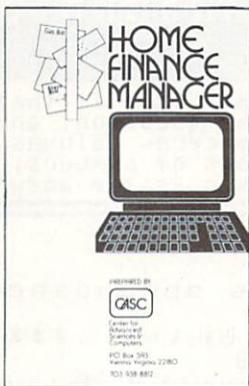
Timeworks
\$:na Diskette
for: C64
Check recording, sorting, and balancing system that
interfaces with Money Manager for budgeting.

EZ-Checking

Genesis Software
\$ 29.95 Diskette
for: C64
Personal checking program using fast ISAM files.
Searches on five levels, printed reports, screen
displays same as paper checks.

Financial Planner

Timeworks
\$:na Diskette
for: C64
Personal financial planner by Sylvia Porter. Covers
checkbooking, budget preparation, financial statement
preparation, financial inventory tracking and tax
aids.



Home Finance Manager

Cardinal Software
\$ 49.95 Diskette
for: C64

Complete mini-financial management program. Maintains all of the details of home finance record keeping, with the ability to store in excess of 200 transactions per month. Keeps detail records of tax deductions, bank payments, monthly charges, check transactions, and individual item expenses. Detailed printouts and charts, annual reports, etc.

Investment Advisor

MicroSoft
\$ 69.95 Diskette
for: C64

Complete financial analysis tool sophisticated enough for the serious investor, yet simple enough for the novice. Includes individual federal income tax planning.

Investors Pak

Useful Software
\$ 25.00 Diskette
for: C64

20 plus business programs for solving financial problems, mortgages, real estate analysis, present values, syndication, leases, etc.

MicroCheck

MicroBits Peripherals
\$ 49.95 ROM
for: C64

Screen displays check recorder, checks, and deposit slips to look like a familiar paper checkbook. 30 accounts, transfers between accounts, continuous balances and scrolling through check recorder.

Personal Net Worth

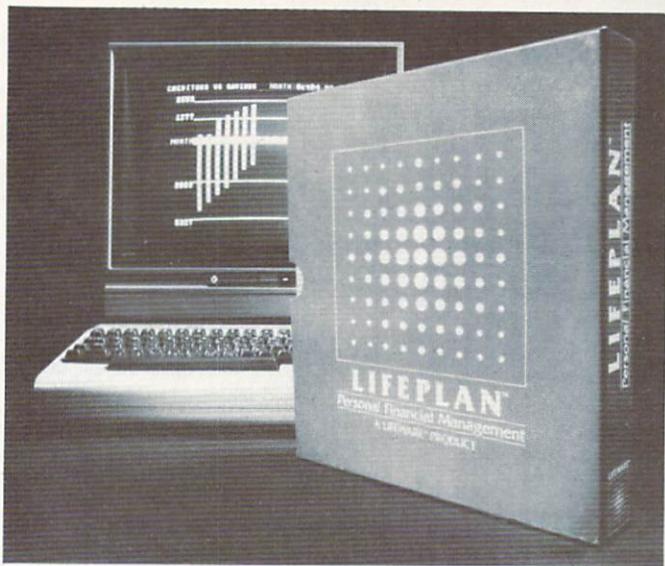
Scarborough Systems
\$ 79.95 Diskette
for: C64

Lets you manage, track and organize everything you need to know or do about your money matters.

Real Estate Investor

Jance Assoc.
\$ 35.00 Disk or Tape
for: C64

Enables the prospective real estate buyer to analyze the financial and tax consequences of alternative real estate investments.



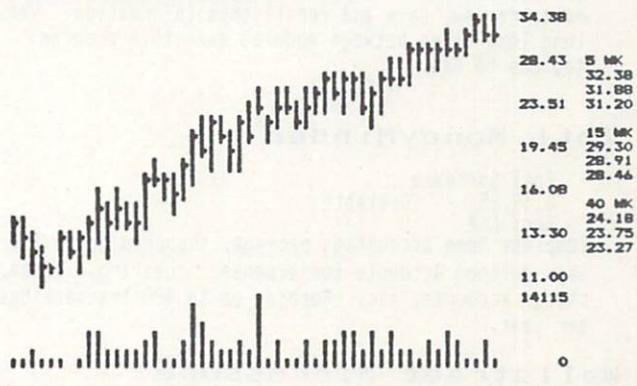
LifePlan

LifeWare
\$ 99.95 Diskette
for: C64

An easy to use personal financial management system for home use. Designed to help middle class families and individuals improve their financial security. Includes credit management (to control or eliminate debts), expense management (budget plan), and financial growth monitoring (via special screen displays and printouts), 5 different charts/graphs and 8 monthly reports.

>>> Circle Reader Service No. 28 <<<

GDW GOLDEN WEST FINANCIAL
850531 DIV 0.20 P/E 8



Stock Helper

(M)agreeable Software
\$ 30.00 Diskette
for: C64

A technical analysis program that displays weekly price and volume charts and calculates moving averages of prices. You may enter weekly data for up to 100 stocks and up to 20 market indicators. Keeps up to 52 weeks of data and drops the oldest week. You decide when to buy or sell.

SPREADSHEETS



What If? If that is the question, and it concerns columns and rows of numbers, then this is the answer.

Smart

Double E Electronics
\$ 49.95 Diskette
for: C64

Covers word processing, money management, amortizations, recording keeping and time management.

StockTrender

JB Horton
\$ 75.00 Diskette
for: C64

Stores 53 weekly prices per stock (data input by user). Stores values for 100 stocks per disk. Calculates mean FPC, annualized yield, variance, standard deviation and other statistics. Ranks best to worst stock in 6 categories.

Swiftax

Timeworks
\$:na Diskette
for: C64

An income tax preparation program that requires no prior knowledge of computers or accounting. Supports schedules a,b,c,d,g,w,se, and form 2441 - stores the totals and integrates this info into your form 1040, 1040a, or 1040ez.

TAS-64

Abacus Software
\$ 84.95 Diskette
for: C64

Analyzes and charts technical indicators for the serious stock market investor. Automatically download your indicators from Dow Jones/News retrieval service or Warner Computer Systems or manually enter, edit, review, save and recall this information. Very long load times between modules make this program tedious to use.

(-Staff)

Total MoneyMinder

Total Software
\$ 39.95 Diskette
for: C64

Complete home accounting package, supports up to 110 user defined accounts for expenses, checking, income, charge accounts, etc. Records up to 400 transactions per year.

Wallstreet Microscope

Wallstreet Corp.
\$ 135.00 Diskette
for: C64 C128

Investment software for analysis of common stocks. Complete with database of 1500 firms on disk. Updates available by subscription. Single or batch processing. Search capabilities, market averages, file creation and maintainance capabilities. Demo disk also available.

>>>> Circle Reader Service No. 45 <<<<

Vizastar's spreadsheet

Solid State
\$ 119.97 Disk & ROM ****
for: C64 C128

1000 x 64 cell spreadsheet with 10k RAM available (14k with the XL8 version for extra \$\$\$). Powerful spreadsheet commands, windows, DBMS, graphics, pie and bar charts, menu-driven and easy-to-use. Need we say more than it's the C64's answer to 1-2-3!

(-Staff) See review, Issue #7

Calc Result Advanced

Handic Software
\$ 99.95 Disk & ROM ****
for: C64

A 3-dimentional spreadsheet that supports split screens, windows, color graphing, extensive help screens and complex formulas. Search and sort routines would make this powerful package exceptional.

(-B.D.) See review, Issue #1

Practicalc

Computer Software Associates
\$ 49.95 Disk or Tape ****
for: C64

Easy to use spreadsheet. Searching and sorting functions add extra value here.

(-B.D.)

Calc Result Easy

Handic Software
\$ 49.95 ROM ****
for: C64

A single page, scaled down version of calc result advanced (this is the same product Commodore markets as 'Easy Calc 64') with no windows or split screens.

(-B.D.)

Calikit

Batteries Included
\$:na Diskette
for: C64

Spreadsheet with built-in templates for the most needed home and business applications, including income tax, budgets and more.

E.L.F.

CodeWriter
\$ 40.00 Diskette
for: C64

Easy Language Form, an 8 page free/form spreadsheet that allows you to interact complex calculations directly with written text and ELF writes the BASIC code.

Multiplan

HES
\$ 99.95 Diskette
for: C64

Microsoft's popular advanced spreadsheet package for the 64, at a fraction of it's original cost and with most of it's original power.

Powerplan-64

Abacus Software
\$ 49.95 Diskette
for: C64

Powerful and flexible spreadsheet for the C64, with built-in graphics so you can display your data in graphs as well as numbers. Menu driven, with over 90 help screens to assist you, and a complete tutorial is included.

PractiCalc 64

PractiCorp International
\$ 29.95 Diskette
for: C64

Full feature spreadsheet which includes 23 math functions and many spreadsheet options such as insert, delete, move and copy. 250 rows by 100 columns and is compatible with PractiFile's data files.

Programmable Spreadsheet

PractiCorp International
\$ 39.95 Diskette
for: C64

Full feature spreadsheet which includes the ability that the user may program in BASIC for a convenient way for better input/output.

SwiftCalc

Timeworks
\$:na Diskette
for: C64

Powerful easy-to-use spreadsheet designed for home or small business use. Includes 'Sideways' which allows you to print your spreadsheets sideways on your printer. 250 row by 104 columns. Interfaces with Data Manager 2 and Word Writer.

Syncalc

Synapse
\$:na Diskette
for: C64

Electronic spreadsheet, templates are available separately for predesigned use at home or office.

Turbo Calc/64

Aquarian Software
\$ 17.95 Diskette
for: C64

Memory resident / 100% machine and p-code. Menu driven 13K RAM for data / 100 X 26 matrix / help screens / menu on screen at all times / full printer support / built-in functions.

WORDPROCESSING

INFO

Wordprocessors help you make your ideas look as good on paper as they seemed when you first got them.

Paperclip With Spellpack

Batteries Included
\$ 99.95 Diskette ****
for: C64

Same as paperclip but includes a spelling checker.
(-B.D.)

Paperclip

Batteries Included
\$ 89.95 Diskette ****

for: C64

With its many enhancements this has become our first 5-star wordprocessor. It can be used with 80-column hardware, has software 80-column mode, horizontal scrolling in 40 column mode, extensive search & replace variations. Our 'in-house' wordprocessor.
(-B.D.)

Spellpack

Batteries Included
\$ 49.95 Diskette ****

for: C64

Spelling checker for BI's Paperclip wordprocessor. Checks documents against a 20,000 word dictionary in under 4+ minutes. An additional 5,000 may be added.
(-B.D.)

Easy Script

Commodore
\$ 49.95 Diskette ****

for: C64

Quality at a low price. Range of capabilities similar to Wordpro 3 Plus. Features on-screen formatting and horizontal scrolling. (Originally developed by Precision Software).
(-B.D.)

Omnewriter With Omnispell

HES
\$ 69.95 Diskette ****

for: C64

On-screen formatting, interfaces with multiplan, and integral 30,000 word spelling checker highlight the many features of this wordprocessor.
(-B.D.)

Script 64

Richvale Telecommunications
\$ 105.00 Diskette ****

for: C64

Full-featured with search and replace, numerics, screen formatting and dictionary software built-in (you must build the vocabulary yourself). Built-in 80-column software. Now includes a database manager ('Scratch Pad').
(-B.D.)

Spellpro 64

Pro-Line
\$ 49.95 Diskette ****

for: C64

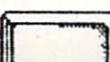
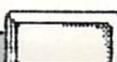
25,000 word dictionary (expandable) spelling checker for Pro-line's Wordpro 64.
(-B.D.)

Wordpro 3 Plus/64

Professional Software
\$ 99.95 Diskette ****

for: C64

Full-featured wordprocessor with Spellright Plus and widely supported by other vendors' products. Lacks on-screen formatting and multi-column capability. Spellright is an 18,000 word spelling checker with room for 1500 user entered words.
(-B.D.)



Wordpro 64

Pro-Line
\$ 49.95 Diskette ***
for: C64

All the original Wordpro features plus: 100% proportional spacing, 40 to 136 column of screen display (you can't read them but you can see what your page will look like), multiple columns printed in one pass, and an 'oops' buffer for accidental deletions. Also interfaces with Pro-Line's 25,000 word spelling checker.

(-B.D.)

Easy Spell

Commodore
\$ 29.95 Diskette ***+
for: C64

20,000 word dictionary and spelling checker that works with Commodore's Easy Script.

(-B.D.)

Cut & Paste

Electronic Arts
\$ 39.95 Diskette ***
for: C64

Advertised as 'the remarkably simple word processor'. What Cut & Paste gains in simplicity, it loses in power and utility. No one likes unnecessary complexity, we don't need to be protected from search & replace, just show us how to use it better.

(-B.D.)

Word Machine/Name Machine

Commodore
\$ 19.95 Diskette ***
for: C64

You get a mini wordprocessor and menu-driven mailing list program suitable for light-weight letter writing and mailings. Also included are DOS 5.1 and a nice program that will add a 'smart' directory menu to any of your diskettes.

(-B.D.)

Homeword

Sierra On-Line
\$ 49.95 Diskette ***-
for: C64

Menu-driven wordprocessor features icon function selection and pictorial view of document layout. Includes audiotape-based tutorial and a 30 page manual. In spite of the thought and labor behind this product, this system is very slow and awkward.

(-B.D.)

Bank Street Writer

Broderbund
\$ 49.95 Diskette
for: C64

Generally well-regarded wordprocessor especially suited to occasional users.

Fleet System 2

Professional Software
\$ 79.95 Diskette
for: C64

Complete word processor with built-in 70,000 word spelling checker (15,000 customized words can be added). Built-in 80 column scrolling, math functions, search and replace, etc.

Mirage Wordprocessor

Mirage Concepts
\$ 89.95 Diskette
for: C64

Full-featured wordprocessor that links with their database manager and now includes 30,000 word spelling checker. Integral 80-column software.

Paperback Writer 64

Digital Solutions
\$ 39.95 Diskette
for: C64 C128

Word processor with visual on screen formatting like boldface, underline, and italics. C128 faster/80 column version is available for \$15 more.

Spell Now

Cardco
\$ 39.95 Diskette
for: C64

Compatible with Cardco's Write Now word processor. Has a 34,000 word dictionary, and user definable dictionaries. Marks questioned words in text. View word in context and/or correct it. Menu driven.

Super-Text Professional

Muse Software
\$ 79.95 Diskette
for: C64

For novices to experienced wordprocessor users. On screen help, 80 column screen (no hardware), autolink, math mode, split screen, copy/save/delete blocks of text, automatic word wrap, multiple file search and replace and more.

Textomat-64

Abacus Software
\$ 39.95 Diskette
for: C64

Easy to use and powerful wordprocessor. Many features including form letters, chaining of documents, block operations and complete printer set-ups. Full 80 column lines with horizontal scrolling. Simple on screen commands.

The Critic

Quantum Leap
\$ 16.00 Diskette
for: C64

Software 80 column mode, supports keyboard graphics, globals, word count, quick reference cards and a 15 page memory.

Tot1. Speller 3.6

Tot1 Software
\$ 35.00 Diskette
for: C64

Checks spelling on Tot1.text documents, provides a 10,000 word spelling checker (with room for 14,000 additional words).

Word Writer

Timeworks
\$ 19.95 Diskette
for: C64

An efficient 80-column professional word processor with built-in 40,000 word spelling checker and calculator. Interfaces with other Timeworks products.

Write Now

Cardco
\$ 49.95 ROM
for: C64

Full-featured with global search & replace, Arabic or Roman page numbering, audiotape instructions along with the manual, up & down scrolling, links with 'Mail Now', saves to tape or disk.

DATABASE MANAGERS

Organize, sort, and file anything you know you'll need to know later.

Superbase 64

Progressive Peripherals
\$ 99.95 Diskette ****
for: C64

This tops our list of the best database managers. Excellent products like 'Superbase 64' are elevating the C64 to new heights of respectability.

(-B.D.) See review, Issue #3

Vizastar's database manager

Solid State
\$ 119.97 Disk & ROM ****
for: C64 C128

Up to 9 screen pages can be used with up to 64 different fields. A total of 120 characters per field or 8000 characters per record. 30 character key field (only one allowed), 1200 records max on a 1541 (with other drives the max is 65,535 records), 120 databases per disk and 15 different files per database. Interfaces with spreadsheet commands like the powerful 'exec' command.

(-Staff) See review, Issue #7

Mirage Database Manager

Mirage Concepts
\$ 99.95 Diskette ****
for: C64

All machine language (completely RAM resident), free form record design and input, calculated fields, restructuring, sequential files for popular wordprocessors. We found the mailing label routines too restrictive and requires a separate but included reporting package to access more powerful report functions. Good documentation with hands-on tutorial.

(-B.D.)

The Consultant

Batteries Included
\$ 99.95 Diskette ****
for: C64

This is a quality product overall with 9 screens per record, flexible reports and password protection. It also allows multiple keylists for each database. We found some problems with initial screen design, screen esthetics, and lack of flexibility in mailing label design. (Formerly Delphi's Oracle.)

(-B.D.)

The Manager

Commodore
\$ 49.95 Diskette ***+
for: C64

This data base management system has many unique and delightful features but suffers from abominable documentation and a lack of internal consistency, possibly due to its long evolution and development at the hands of many TPUG contributors, where it originated.

(-B.D.)

Home Organizer Series

Batteries Included
\$ 29.95 Diskette ***
for: C64

Series of dedicated list managers (sold separately) for: stamps, photos, mail list, home inventory, recipes, checkbook, audio/video, address book. While we encourage readers to learn how to use a general purpose database manager, these application subsets of 'The Consultant' may be the best choice for those with a very specific filing need or aversion to programming.

(-B.D.)

Baseball DataBase

Jacobsen Software Designs
\$ 39.95 Diskette

for: C64

Powerful and simple to use database for collecting, storing and reporting your team's statistics (from little league to college). Tracks 23 individual player and 22 pitcher stats for each game. All cumulatives, totals & averages are calculated and stored automatically. 11 printed reports.

>>> Circle Reader Service No. 6 <<<

D-Base/80

F-Systems
\$ 59.00 Diskette

for: C64

Full featured 80 col. database for use with popular 80 column expanders. Features 'Dual-Screens' operating system that operates 2 monitors simultaneously, each with different screen.

Data Manager 2

Timeworks
\$ 19.95 Diskette

for: C64

Complete general information storage and retrieval system with report writing, graphics, statistics, and label making capabilities. Interfaces with Word Writer and Swiftcalc.

Datamat-64

Abacus Software
\$ 39.95 Diskette

for: C64

You design your own database in free form using the full screen editor. To handle your complex data needs, you can define up to 50 fields per record and up to 2000 records per disk. Sort on multiple fields in any combination, then select records for printing.

Deluxe Addresser

Briley Software
\$ 29.95 Tape

for: C64

Easy mailing labels, up to 250/file, four line address with phone, 8 user-definable flags and many features.

ESI Time Planner

Electronic Software Inc.
\$ 49.00 Diskette

for: C64

Maintain daily and monthly schedules in 15 or 30 minute intervals for any date for any person with any number of daily reminders with this personal calendar and appointment program.

FileWriter

CodeWriter
\$ 40.00 Diskette

for: C64

DBMS with screen design of files and on screen instructions.



Flexfile 2.1

Cardinal Software
\$ 59.95 Diskette
for: C64

Powerful and easy to use program. Stores thousands of record items per file with 20 or more compacted fields of information per item. Order the file by any combination of subtotals, averages, running totals, etc. Calculated report column headings use +, -, *, /, log and trig. Select records or reports or mail labels by field comparison, range, codes and multiple criteria.

Home Integrator

CodeWriter
\$ 24.99 Diskette
for: C64

Four separate data entry programs covering checkbook, name & address book, recipe files, and home inventory. Completely menu driven.

M'File

Double E Electronics
\$ 49.95 Diskette
for: C64

Data base with up to 36 fields per record, 250 characters per record, 1000 records per disk. Includes report generator that allows columnar or horizontal printing.

Mailer

Raymond Reynolds
\$ 19.95 Diskette
for: C64

Stores and retrieves up to 800 records with name, address 1 and 2, city, state, zip and telephone numbers.

MasterType Filer

Scarborough Systems
\$ 39.95 Diskette
for: C64

Home filer and list manager that uses color, sound and graphics to attract children.

MicroFiler

MicroBits Peripherals
\$ 24.95 ROM
for: C64

Easy to use yet flexible file management software. Cartridge format allows for use of disk or tape storage. Full function search and sort features includes multi-field capabilities.

PractiFile

PractiCorp International
\$ 29.95 Diskette
for: C64

Handles large filing tasks with ease. Allows reconstruction of files without re-entry of data. Includes mail label feature, report writer, and integrates with PractiCalc 64.

Pro-Data

Nanosec
\$ 49.95 Diskette
for: C64

Free form screen entry design including graphic characters with cursor wrap-around. Change keyfile at any time (temporarily or permanently), 800 records, up to 80 characters per field, up to 80 fields per record. Reports and label capabilities.

Salesman Expense

CodeWriter
\$ 19.95 Diskette
for: C64

Allows sales personnel to keep track of all expenses easily and accurately.

Totl. InfoMaster

Totl Software
\$ 49.95 Diskette
for: C64

Full feature general database system which uses dynamic disk allocation to allow a single file to use the full capacity of the disk. Up to 2,500 characters/record and 100 fields of 200 characters.

XPER-64

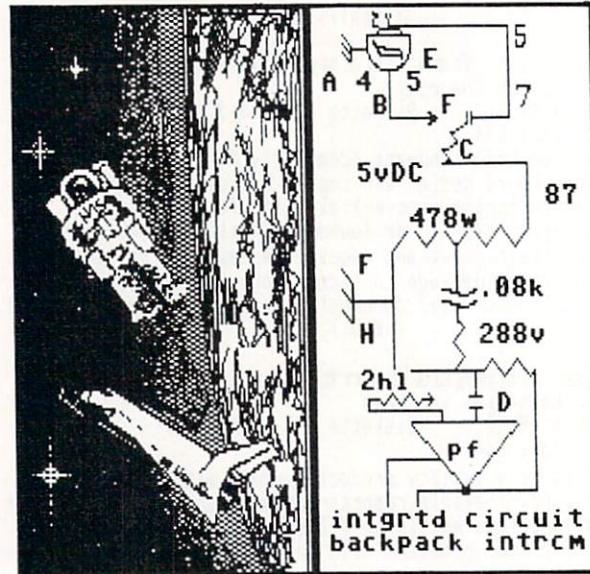
Abacus Software
\$ 59.95 Diskette
for: C64 C128

Database system for the C64 & C128, includes searching, full reporting and data maintenance capabilities.

GRAPHICS



A picture is worth a thousand words, but graphics software costs about the same as wordprocessors.



Flexidraw 5.0 with light pen

Inkwell
\$ 149.95 Diskette *****
for: C64

Comprehensive light-pen based drawing package (for use with Inkwell's professional grade pen), supports true hi-res (320x200) with elaborate area pattern fills, unlimited template creation, two printout sizes, sprite editor, animation routines, coloring mode, telecommunications mode for transmitting graphics, programming graphics language & more! Not a toy, but lots of fun!

(-B.D.) See review, Issue #2
||||> Circle Reader Service No. 21 <<<

Print Shop

Broderbund

\$ 39.95 Diskette

for: C64

A must for every C64 owner with a suitable printer (supports many popular models), for printing greeting cards, signs, banners, letterheads and more. Includes excellent manual, graphics editor (Koala compatible), colored tractor paper and envelopes. Many different fonts and (editable) graphics characters. I can see the 'garage sale' signs now.

(-Staff) See review, Issue #6

33 FONTSTYLES AVAILABLE ON

* FLEXIFONT *

FANTASY

ART DECO

SCRIPT

COMPUTER

GREEK

ROUND

ITALICS

TYPE SET

OUTLINE

DUNGEON

BUBBLE

SKETCH

OUTLINE

SAKI



CREATE FOREIGN CHARACTER SETS,
SYMBOLS, PICTURES & PATTERNS.

Flexifont

Inkwell

\$ 29.95 Diskette

for: C64

Light pen driven character generator with thirty-three accessible font (letter) styles, plus option to create users' own characters, foreign characters, symbols or patterns fills. Characters can be edited, moved, customized and saved. Requires Flexidraw & light pen.

Doodle!

City Software

\$ 39.95 Diskette

for: C64

Routines include: paint & erase with 8 brush sizes, duplicate, enlarge, reduce, reverse & mirror. Menu-driven with color, various text sizes, orientations, zoom, marvelous 'op art' feature, built-in graphics dumps to printer in single or double size.

(-B.D.)

Paint Magic

Datamost

\$ 34.95 Diskette

for: C64

This is a solid color graphics package with all the usual bells and whistles, plus some extras like: create hundreds of your own fill-textures, complex multi-colored brushes with 'grab' function, merge 2 pages of graphics together. Screen dumps are not directly supported.

(-B.D.)



Reduction of an actual sign

Banner Machine

Cardinal Software

\$ 49.95 Diskette

for: C64

Lets you make banners and signs on your printer. Setup program for most printers and interfaces on the market. Printer dumps are a level of magnitude faster than Print Shop. Manual is a bit obscure, additional fonts too costly, and program is not as flexible as it could be, but the end result is very nice, with choice of eight type sizes in four included font styles.

(-Staff)

Graphics Magician Pict. Paint

Penguin Software

\$ 39.95 Diskette

for: C64

Picture and object painter that lets you store many multi-color pictures on disk and recall them quickly. Pictures maybe added easily to your own programs. This package is very tedious to work with compared to most graphics packages, but the resulting screens can be pulled off disk fast enough to be used in commercial software.

(-B.D.)

Print Shop Graphics Lib. I

Broderbund

\$ 24.95 Diskette

for: C64

120 graphics to be used as supplementary art with the (required) 'Print Shop'. Includes graphics for holidays, special occasions, sports, school, zodiacs, animals and more.

(-Staff)

Print Shop Graphics Lib. II

Broderbund

\$ 24.95 Diskette

for: C64

120 graphics to be used as supplementary art with the (required) 'Print Shop'. Includes graphics for hobbies, occupations, people, places, travel and health.

(-Staff)



Banner Printer

Raymond Reynolds
\$ 14.95 Disk or Tape
for: C64

Prints letters and characters in banner style on any Commodore printer and many others (does not use bit addressable graphics). Tape version for \$9.95.

CadPic

KiwiSoft Programs/Ace Software
\$ 79.95 Diskette
for: C64

Computer aided design package for the C64. Similar to 'PaintPic' but includes print capability. Compatible with most dot-matrix printers including Epson JX-80 and Okimate 10 color printers.

ColorMe Computer Coloring Kit

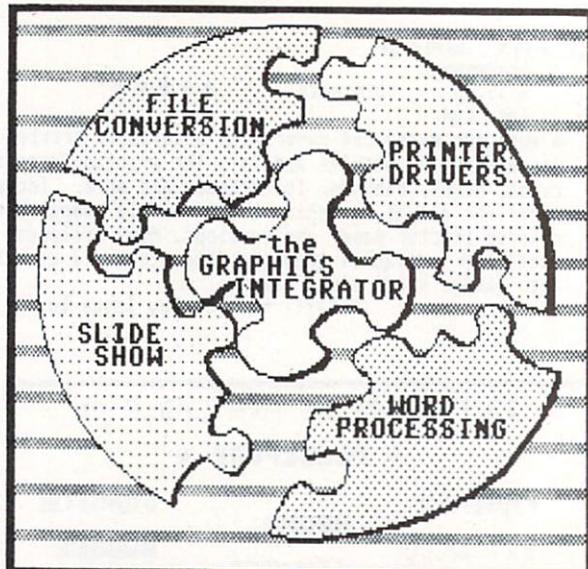
MindScape
\$ 29.95 Diskette
for: C64

Easy to use and designed especially for young children. They can draw freehand or use a drawing program to cut and paste pictures from picture disks (sold separately).

Fantavision

Broderbund
\$ 29.95 Diskette
for: C64

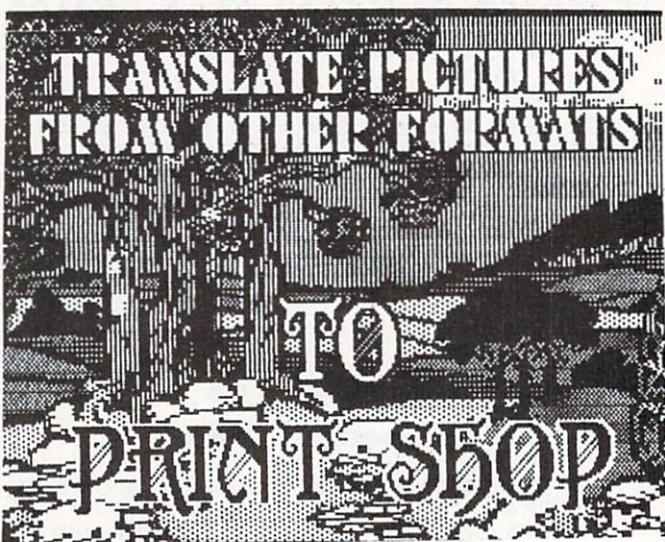
Another Broderbund landmark (originally designed for the Apple II, but soon to be available for the Commodore machines C64, C128 and Amiga), which lets you create simple full-screen animation in seconds, to create a movie-on-disk that you can send to your friends.



Graphics Integrator

Inkwell
\$ 29.95 Diskette
for: C64

A compatibility 'bridge' between Flexidraw, other popular graphics packages, and word processing software which accept external files (ie file conversion from one graphics package to another, as well as integration of text and pictures). Creates self running 'slide shows' in hi-res and multicolor and more. Available August 1985.



Graphic Conversion C64

Hi-Tech Graphics
\$ 20.00 Diskette
for: C64

Converts Koala pics to Doodle! pics or vice versa with minimal loss of resolution or color definition. Converts either color formats to shaded b/w format of 'the Print Shop' or convert PS's screen magic displays to either Doodle or Koala. Also works with Flying Colors, CADPAK-64, UltraBASIC-64, B/graph and HES graphic basic.



PaintPic

KiwiSoft Programs/Ace Software
\$ 39.95 Diskette
for: C64

16 color drawing and painting package for the C64. Provides easy drawing with keyboard, joystick, graphics tablet, pen modes, and text mode, 65,000 different paintbrushes, automatic arcs, rectangles, ellipses, triangles, lines, parallelograms, automatic copy, mirror, rotate half and double.

Graphic Conversion

M. Keryan
\$ 20.00 Diskette
for: C64

Lets you convert a graphic from one format to another (Koala, Doodle, Print Shop, Computereyes, etc.). Use it to add lettering to pictures, change colors, etc.

Micro Illustrator

Commodore
\$ 29.95 Diskette
for: C64

Graphics program with joystick or light-pen input.

Sprite Wiz

DJ Software
\$ 19.95 Diskette
for: C64

Sprite editor with 9 modes: multi-color, puzzle, page, etc.



Colortone Keyboard -membrane

Waveform
\$ 79.95 Diskette
for: C64

The art-work makes this flat-membrane keyboard look 3-D but it really isn't. It has some interesting icon-based intermediate level software.
(-B.D.)

Colortone Keyboard -Pro

Waveform
\$ 399.95 Diskette
for: C64

This is a full-travel professional-feeling number with a touch sensitive membrane strip across the top (acts like a second keyboard for effects, etc.). You also get some special software geared more toward the performing professional.
(-B.D.)

Incredible Musical Keyboard

Sight & Sound
\$ 29.95 Diskette
for: C64

A nifty little keyboard assembly that sits snugly on your C64 keyboard (and looks like its part of it). The piano layout gives two octaves of keys that make musical sense. You don't get feel of a real keyboard but this a good compromise for the \$\$. It is compatible with Sight & Sounds entire line of music software (very considerable).
(-B.D.)

Melodian Keyboard

Melodian
\$ 200.00 Diskette
for: C64

With ConcertMaster is a strong suit (3 modules at \$39.95) from Melodian, but the \$200 keyboard is ridiculously priced, the feel is definitely dime-store (\$69.95 would have been more acceptable). The software is another story - its up there with the best.

(-B.D.)

Model 64 Sequencer

Sequential Circuits
\$ 200.00 Diskette
for: C64

This is the interface with software that allows the 64 to store, process & sequence music and sound tracks from MIDI devices (like their Six-Trak Synthesizer).
(-B.D.)

Music Mate Keyboard

Sequential Circuits
\$ 99.00 Diskette
for: C64

This 2 & 1/2 octave polyphonic keyboard could be the price/performance breakthrough we've been waiting for. Includes software for creating custom sounds and recording/playback of up to 10 minutes of continuous music. Plugs into the joystick port leaving others free.

(-B.D.)

Six-Trak Synthesizer

Sequential Circuits
\$ 1100.00 Diskette
for: C64

Midi-compatible, this keyboard is clearly aimed at the pro market. When used with a C64 and the Model 64 Sequencer it can be used to input 8 sequences of notes on up to six 'tracks'.
(-B.D.)

Virtuoso! Musical Keyboard

Synthware
\$ 69.95
for: C64

A professional style 4-octave keyboard with software.



Allegro

Parabola
\$ 39.95 Diskette ****
for: C64

Expert or novice, if you want to get serious about music & sound then you'll love it. Used by many commercial software houses to add music to their programs. New version turns keyboard into real-time synthesizer. Makes complex sounds you can't even get with most other music products for the C64. Excellent documentation includes clear discussions of music & digital sound.

(-B.D.)



Kawasaki Rhythm Rocker

Sight & Sound
\$ 39.95 Diskette ****+
for: C64
This will take you for a fast ride thru sights & sounds. Has a lot of 'anyone can use it' appeal, along with some pretty 'nuts & bolts' user control features. Preprogrammed base tracks and lots of wild graphics controls. Probably the most fun of the lot. Works with Sight & Sounds keyboard overlay/attachment.
(-B.D.) See Gallery, Issue #4

Master Composer

Access Software
\$ 39.95 Diskette ****+
for: C64
This is a real solid music-processor with 4 visible staves, color voice, designations, real time graphic display of notes as they play. Great sample tunes demonstrate the rich musical potential of Master Composer. Change sounds during play, link files for extended compositions and interrupt-driven with facilities for patching music to existing or new programs.
(-B.D.)

Musicalc I

Waveform
\$ 74.95 Diskette ****+
for: C64
An elaborate, colorful, well-documented music system incorporating synthesizer and sequencer features in a visually dazzling environment. Graphic slider bars make it almost like sitting in music studio. But be prepared to spend some time studying when you sit down to write some music.
(-B.D.)

When I'm 64

Alien Group
\$ 29.95 Diskette ****+
for: C64
Unusual in many ways (besides it's name) like: inexpensiveness, looks plain, easy going, supports exotics (glide, vibrato, real-time over-dubbing, single-key re-timing, interfacing with a singing speech synthesizer, programmable vocals and a synchronized face to mouth the words. One of my favorites for a quick romp into musical self-expression.
(-B.D.)

Music Writer-64

M'Soft
\$ 69.95 Diskette ****
for: C64
Especially nice animated staff & scrolling notes (that look like real notes) highlights this entry. Easy to find your way around the various menus, dumps sheet music to printer, full voice control, well documented, 12k of note storage, and help screens.
(-B.D.)

Note Pro II

Electronic Lab Industries
\$ 49.95 Disk or Tape ****+
for: C64
A plain vanilla music writer with an ample set of creative tools, input & edit 8 measures of 3-part music on the lo-res graphics staff. One feature I like is the ability to transpose a score to another key without re-entering each note.
(-B.D.)

Dancin' Feats

Softsync
\$ 29.95 Disk or Tape ****+
for: C64

This program makes up in accessibility what it lacks in depth. Completely menu-driven, you play along with some well-done background tracks from blues to rock to a waltz. What do you play on? Your joystick! The graphics display is tied to the music & is very dynamic. Fun & simple.
(-B.D.)

Music Construction Set

Electronic Arts
\$ 39.95 Diskette ****+
for: C64

Less than the equivalent of Pinball Construction Set. Impressive programming behind it, fun to watch, play and listen to. It just falls short of what it could have been (only 2 voices and 13 pre-determined sounds). Thes and other problems stem from apple conversionitis.
(-B.D.)

Studio 64

En-Tech
\$ 39.95 Diskette ****+
for: C64

Scrolling graphics, snappy menus & adjustment displays are really nice in this package. Tho the only way to get listenable music is to transcribe sheet music or be able to compose music in standard notation. Demo & features are well excuted, but unless you read &/or write music, you'll be frustrated by this music package.
(-B.D.)

Synthy 64

Abacus Software
\$ 27.95 Disk or Tape ****+
for: C64
Fundamentaly an extension to BASIC adding over a dozen new commands which can be used in BASIC program statements to construct and play music at run-time. Alter ADSR and other controls like glide. Not really stateof-the-art but beats poking into memory.
(-B.D.)

Ultisynth

Quicksilva
\$ 19.95 Diskette ***
for: C64

This program proves that you can have lots of talent and skill and still make a mess of theings. The problem is that it is overwhelmed by its own features, resulting hopeless encumbrances like the 4-page condensed reference card set. Honestly, even the author must not enjoy trying to compose on his/her system (as evident by the single unremarkable demo on the disk).
(-B.D.)

64 Sounds

JAL Software
\$ 22.95 Diskette
for: C64

15 programs in BASIC that cover digital sound synthesis using the SID chip. Includes single/multi voice and filtered sound effects, utilities, and

examples.

A.U.D.I.O. disk 2

Parabola
\$ 8.95 Diskette
for: C64

Helpful hints, new presets, more music & surprises.

Allegro Sampler

Parabola
\$ 8.95 Diskette
for: C64

Over an hour of the best music by Allegro users.

Bank Street Music Writer

MindScape
\$ 39.95 Diskette
for: C64

For users of any level of music knowledge. Two musical staves on screen and the ability to shape tones and includes repeats, endings, and triplets.

Cantus, The Music Improviser

Algo-Rhythm Software
\$ 49.95 Diskette
for: C64

Allows beginners as well as music connoisseurs to use a sophisticated musical device. Full screen editor allows control of tempo, rhythm, harmony, counterpoint, etc. Over 50 ready to run modifiable sample files provided, including 'hoedown-1' and 47 page manual.

>>>> Circle Reader Service No. 9 <<<<

Guitar Pak

JAL Software
\$ 29.95 Diskette
for: C64

Menu based integrated musicians utilities including 2 guitar/instrument tuners, metronome, drum machine, external audio processing tremolo filter and on-disk manual. Audio cassette demo also available for \$5.

Music Shop

Broderbund
\$ 44.95 Diskette
for: C64

Lets users work, edit, play and print original compositions all in one program. Has full musical capabilities, automatic page-turn (no scrolling here), gives user full control of the SID chip, and more.

Music Writer 64

Double E Electronics
\$ 29.95 Diskette
for: C64

Three complete voices, easy note entry, realtime control of Wave, 4.5 octative range, printing capabilities and more.

Songwriter

Scarborough Systems
\$ 39.95 Diskette
for: C64

Turns your computer into a 'word processor for music'.

Texture

Cherry Lane Technologies
\$ 19.95 Diskette
for: AMIGA

A modular recording program that allows flexible editing and easy manipulation of musical text. Musical compositions can be recorded as a series of small pieces then linked together to form a complete composition.

Virtuoso! 1.1

Synthware
\$ 24.95 Diskette
for: C64

A complete music package for the 64 that allows you to create sounds, compose, and play compositions. Menu-driven, resides entirely in RAM. Holds 24 presets in memory. Write compositions up to 900 notes for each of 3 voices. Special multi-computer feature allows two or more 64's to be connected and play multi-part music in synchronization.

Virtuoso! BASIC interface

Synthware
\$ 15.95 Diskette
for: C64

Adds six new commands to BASIC. Allows playing back of Virtuoso! compositions in the background of a BASIC program.

TELECOMPUTING (SOFTWARE)



Use your computer to talk to the world.
(Keep an eye on the meter, tho: global contact ain't cheap!)

VIP Terminal

Softlaw
\$ 59.95 Diskette ****+

May be the only terminal program you need. Includes: CBM-Punter & non-CBM protocols, 40, 64, 80 or 106 columns (no extra hardware needed), built-in text editor, auto-dial & redial, 15 entry phone directory and excellent documentation.

(-Staff) See review, Issue #6

Compuserve 64 Executive

Compuserve
\$ 49.95 Diskette ****

The business version of CompuServe's 'Vidtex' is a full featured smart terminal package. Tho optimized for CompuServe's own parameters, they can be easily changed. A 32k save buffer, dump to printer, function key definitions, auto-log on and more.

(-B.D.) See review, Issue #6

Smart 64 Terminal +3

Microtechnic Solutions
\$ 49.95 Diskette ****

User-defined parameters (baud, parity, etc.) compiled basic, one-key log-on, up & down loading, 28k save buffer, and specially designed to optimize access to Compuserve and Commodore's Compuserve database. Now supports the 1650 automodem.

(-B.D.) See review, Issue #6



Kterm -version 2

Kattwinkel komputing
\$ 14.95 Diskette ***+
for: C64

30k save buffer, listable basic, audible key-click,
keep/discard keys, one key log-on, up and down loading
capabilities.

(-B.D.)

CompuServe 64 Videotex

CompuServe
\$ 39.95 Diskette ***
for: C64

CompuServe's own terminal program, which lacks many
snappy features and doesn't have CBM-Punter protocols
but it's far and away the best way to access
CompuServe. Documentation is weak, built-in text
editor and a 32k buffer.

(-B.D.) See review, Issue #6

CP/M Term

Cardinal Software
\$:na Diskette
for: C64 CP/M

CP/M telecommunications program that supports the C64
(with CP/M adapter program) with 1600, 1650, and HES
modems at 300 baud. Also supports any RS232 modem
(with adapter) at 1200 baud.

First Term

Public Domain
\$:na Diskette
for: C64

Access both non-CBM and CBM-Punter protocols, all
CompuServe files including '.IMG' and does
conversions. Full screen editing and 33k buffer.
40-column display and separate documentation file (you
can print-out yourself). It's not fancy but it's free
from most users groups.

(-Staff) See review, Issue #6

HomeTerm (from within HomePak)

Batteries Included
\$ 49.95 Diskette
for: C64

HomePak is three programs on one disk (terminal, word
processing & database). HomeTerm does not download
from a CBM-Punter host and will not deal with
CompuServe's .IMG files, although it will handle the
others. Tiny 12k buffer, but the documentation is the
best.

(-Staff) See review, Issue #6

Jordan NAPLPS Videotex

Addison Information Systems
\$:na Diskette
for: C64

Lets you access NAPLPS and ASCII videotex services via
modem at 300 or 1200 bauds. A variety of services
support the software. Available free of charge from a
service such as Viewtron in southern Florida or direct
from Addison for a \$5 ship/handling charge.

Modem Master

Aquarian Software
\$ 29.95 Diskette
for: C64

Bulletin Board system works with both 300/1200 baud.
Punter file xfer protocol / menu driven / over 25
commands / public message base / 250 user capacity /
clock-calendar / printer output / e-mail check at sign-
on / user survey-poll / old e-mail deleted after 1 wk.
/ private e-mail base.

Omniterm Terminal

Aquarian Software
\$ 19.95 Diskette
for: C64

Terminal software supports 1660 modem. Punter protocol
300/1200 baud. 10 programmable function keys / 15-no.
Phone directory / 20k receive buffer / tone or pulse
dialing / auto-dial, redial.

Q-Term

Peripherals System of America
\$ 29.95 Diskette
for: C64

Full feature terminal program, supports popular modems
like Mighty-Mo, HES, Westridge, and Hayes. Menu
driven.

Super Term

Midwest Micro
\$ 89.95 Diskette
for: C64

For hobby and professional use. It creates only
true-ASCII sequential file (only an 18k buffer), an
extensive built-in text editor, supports several
protocols including CBM and non-CBM. Comprehensive
documentation.

(-Staff) See review, Issue #6

Telemessage BBS

Tailored Solutions
\$ 79.50 Diskette
for: C64

Professional BBS including 5 support programs and
manual. Designed for 'crash-proof' operation.
Completely automatic including clock and updated
calendar. Program can be modified by user and is not
copy protected.

War Games Autodialer

MegaSoft
\$ 29.95 Diskette
for: C64

Automatically dials a set of numbers, then reviews,
saves or prints the numbers answered by a computer.



Aerobics

Spinnaker
\$ 44.95 Diskette ***
for: C64

Leads you through warm-ups, stretches, aerobics and
cool-down. Three levels (beginner, intermediate &
advanced) of intensity, a well illustrated manual and
most of all an impressive upbeat musical score to
motivate you. Lengthy disk access problem can be
overcome by extending current routine until another is
loaded.

(-Staff) See review, Issue #6

The WORD Processor

ie Research Systems
\$ 199.95 Diskette ****
for: C64

Not just a word-processor, but 'the word' of God processor. This package consists of a sophisticated search & display program and the entire King James text on 8 disks. Producing an index by keyword is the real power of this package. Written in BASIC and is amazingly quick in completing searches. Recommended for the serious Bible student.

(-M.B.) See review, Issue #6

The Surf

JAL Software
\$ 19.95 Diskette *
for: C64

Hard to categorize this type of software. Creates a crude seaside picture with an animated ripple of surf. If that's not enough for you, an annoying white noise hisses in the background ('posed to sound like waves rolling in). You can achieve a better effect (for free) by taping an old postcard to your tv set and turning up the volume on an unused channel. I hope you have better uses for your C64 !!

(-B.D.)

Bartender's Friend

Raymond Reynolds
\$ 14.95 Diskette
for: C64

Contains a treasury of liquor terms and recipes using almost 40k of memory.

Bowler

Raymond Reynolds
\$ 39.95 Diskette
for: C64

File tracking and maintenance system for a league secretary. Up to 100 bowlers and 22 teams.

Chord Power

NewArts
\$ 39.95 Diskette
for: C64

Enter one of 8,000 guitar cords and it will be played and displayed on the screen. Displays 12 frets of the guitar.

Dinner's On!

Briley Software
\$ 9.95 Tape
for: C64

Menu planner from favorite meals for up to 15 days in advance. Sorted shopping list. Uses DATA statements.

Easy Guitar

DJ Software
\$ 29.95 Diskette
for: C64

Menu driven guitar lesson program with many features. Internal instructions and documentation.

Evelyn Wood Dynamic Reader

Timeworks
\$:na Diskette
for: C64

Use your computer to improve your reading comprehension retention, and speed.

Grocery Mart

Briley Software
\$ 9.95 Tape
for: C64

Maps out one grocery store by aisle and speed. Calculates tax, cost and coupons in advance. Uses DATA statements.

Keys to Typing

Batteries Included
\$:na Diskette
for: C64

Easy to follow typing tutorial program.

Lottery 64

Superior Micro Systems
\$ 24.95 Diskette
for: C64

Designed to help you (with the aid of your C64) play the various lottery games (pick3, pick4, lotto, super lotto, 6/49, lucky lottery, etc.).

Micro Astrologer

Commodore
\$ 19.95 Diskette
for: C64

Shows you how your birthdate effects your personality, career, love life and more.

Micro Cookbook

Commodore
\$ 34.95 Diskette
for: C64

Two disk program with over 150 recipes. Printout recipes or a grocery shopping list for selected recipes. Each recipe can be adjusted for the number of servings.

Model Diet

SoftSync
\$ 29.95 Diskette
for: C64 C128

Modifying the government RDA's to reflect your personal lifestyle, Model Diet instantly calculates your vitamin intake, analyzes your unique nutritional requirements and programs a safe diet schedule. Extensive food library which breaks down nutritional values and compare your intake with the RDA. Weekly summary tracks your nutritional intake.

Nutritionist

Nanosec
\$ 34.95 Diskette
for: C64

Calculate or suggest a diet or a specified workout. Choose from a list of over 200 common foods to meet your proper requirements including vitamins and minerals.

Original Computer Diet

Scarborough Systems
\$ 49.95 Diskette
for: C64 C128

The original Boston computer diet computer counselor, for easy-to-use day-by-day personal fitness and weight loss counselor. Analyzes your nutritional requirements, monitors your eating habits and suggests meal plans. Designed for persons who have weight-loss problems of 10 to 40 pounds.

People

Bible Research Systems
\$ 49.95 Diskette
for: C64

Topical cross reference to over 140 personalities in the Bible. Must have 'The WORD Processor' from Bible Research Systems to use this.

Piano & Violin Tutor

Melcher Software
\$ 19.95 Diskette
for: C64

Two separate programs for \$19.95 each or \$34.95 for both. They enhance note reading ability and sound identification. Colorful graphics, simulating sound and documentation included.

Recipes Supreme

Melcher Software
\$ 29.95 Diskette
for: C64

Comes with 40 superb recipes on the disk and allows you to store your own for convenient access. Ideal for the home or the home economics class.

Squire

Blue Chip
\$ 19.95 Diskette
for: C64

Simulation that lets you experiment with income and expenses to derive a financial plan for you that will let you retire as a millionaire within 20 years. Emphasizes value of money, inflation and interest bearing investments and tax advantages.

Topics

Bible Research Systems
\$ 49.95 Diskette
for: C64

Topical cross reference to over 200 subjects in the Bible. Must have 'The WORD Processor' from Bible Research Systems to use this.

PROGRAMMING TOOLS



Like a mechanic, a serious programmer needs to have the right tools or the job is much harder.

MAE (Macro Assembler Editor)

Eastern House
\$ 39.95 Diskette ****+
for: C64

Complete 6502 development system, widely used in the software industry.

(-M.B.)

PAL 64

Pro-Line
\$ 49.95 Diskette ****
for: C64

Supports free-format entry of code with comments, conditional assembly, and many other assembler options. Relocatable and takes up only 4K of memory. Outshines all other assemblers with the ability to write BASIC programs with machine language routines.

(-M.B.) See review, Issue #7

Power 64

Pro-Line
\$ 49.95 Diskette ****
for: C64

A BASIC programmer's dream utility package in 4K to 8K of memory, depending on how much power you want. Adds dozens of commands like: merge, search and replace, renumber, etc. Our only complaint is that the renumber utility doesn't properly tag invalid GOTOS and GOSUBS (it renames valid ones fine, though).

(-M.B.) See review, Issue #6

Sysres

Solidus International
\$ 95.00 Diskette ****
for: C64

Absolutely loaded with features: fast-scrolling, re-define keys, auto & re-number, true merges, find-change with wild-cards, space and rem removal and 3 trace modes to name a few. May not be suitable for the casual user due to the complexity (tho we know several who use only a few commands and feel they get their money's worth).

(-B.D.)

Toolbox 64

Pro-Line
\$ 89.95 Diskette ****
for: C64

Pro-line's package that includes both PAL 64 and Power 64 programs.

(-M.B.) See review, Issue #7

Assembler Monitor-64

Abacus Software
\$ 39.95 Diskette
for: C64

For developing machine language programs for your C64. Assembler has fast macro assembler capabilities, supports conditional assembly, full screen editing of source program, assembles to memory and symbol table listing. Includes hunt, disassemble code, transfer blocks of data, and more.

BASIC-64 Compiler

Abacus Software
\$ 39.95 Diskette
for: C64

Complete compiler for speeding up your BASIC programs. Includes free run-time module so you can develop programs for commercial resale with no royalty payments. Allows you to compile speedcode, machine lang., or a combination of both.

I.E.A. (instant edtr/assmblr)

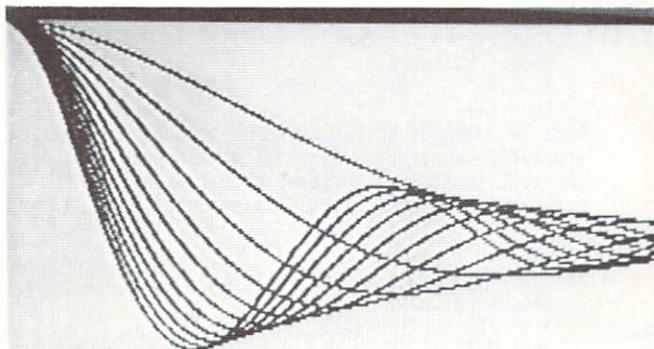
Aquarian Software
\$ 17.95 Diskette
for: C64

Machine Lang. editor/assembler / assembles 17K of source code in 5 seconds. Co-resident editor assembler monitor. Works with HES-Mon. Slow-motion code analyzer. Technical assistance phone number. Recommended by Jim Butterfield, Jim Gracely, etc.

Instant Editor Assembler

Robin's Software
\$ 5.00 Diskette
for: C64

Contains an excellent editor/assembler system, full featured monitor and a walk program with variable step speeds and the ability to add break points. All three programs may be resident in memory at the same time.



MASS SPRING DAMPER SIMULATION

H

Interactive Simulation Lang.

Interactive Mini Systems

\$ 100.00 Diskette

for: C64

Solve differential equations with ease, allows you the power to model, conduct graphical experiments, evaluate strategies, and more at assembly speed. Applications for sociological models, electronic circuits, biological, chemical nuclear processes, fluid dynamics and more. Contains editor, compiler, reverse assembler, graphics and run time executive. 48 page tutorial.

Pro-Assembler

Nanosec

\$ 88.00 Diskette

for: C64

Supports 6502, 65C02, 6510, Z80, 8086, 8088, 68000 and Z8000. 3 passes, supports conditional assembly, base 16, 10, 8 & 2, and leaves all available basic RAM free.

Pro-Compiler

Nanosec

\$ 99.00 Diskette

for: C64 C128

Full 32 bit arithmetic compiler, includes BASIC programs or subroutines or assembler code or already composed programs during computation. Full Commodore V.2 basic set implemented. Available soon for the C128.

PTD-6510 Symbolic Debugger

Pterodactyl Software

\$ 49.95 Diskette

for: C64

Advanced debugger: step, breakpoints, windowing. Super complex conditional breaks, patch, show prior 128 steps, compiled BASIC-like machine language.

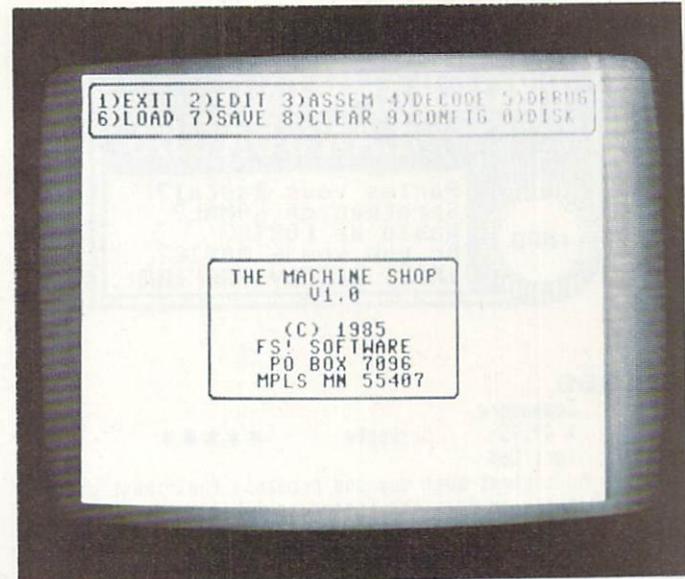
SpeedWriter

CodeWriter

\$ 50.00 Diskette

for: C64

Speeds up your BASIC program to run faster and more efficiently. Simple just give it the name of your BASIC program and it will do the rest.



The Machine Shop

FS! Software

\$ 39.95 Diskette

for: C64

A complete, integrated machine lang. development system. It combines a full-screen editor with a macro assembler, symbolic disassembler & debugger, crossreferencer and a C64 assembly language book. Unprotected and source code is available separately. Includes a free one year subscription to 'Machine Code', the machine language programmers journal.

>>>> Circle Reader Service No. 41 <<<<

VS64COBOL

Visionary Software

\$ 49.95 Diskette

for: C64

Combination editor, compiler, interpreter, and symbolic debugger for COBOL on the C64. Designed along the ANSI X3.23-1974 standards. Includes 100 page manual and sample program to facilitate learning how to use the system.

>>>> Circle Reader Service No. 44 <<<<

XREF-64

Abacus Software

\$ 17.95 Diskette

for: C64

A BASIC programmer's tool that indexes the usage of all variables, line numbers, numeric constants and BASIC keywords. It tells you which line uses a given variable name or which line numbers use a given BASIC command. Cross reference can be listed to screen or printer.

COMAL 2.01

Comal Users Group

\$ 99.95 ROM

for: C64

COMAL 2.01 spoils you, this cartridge version leaves you with over 30K to use and overcomes the shortcomings of COMAL 0.14 (which is very good itself). Commands like viewport, window and stamp ease graphic programming. The sound capabilities surpass some of the dedicated music software. Cartridge with 2 books and 2 demo disks is also available for \$128.90.

(-M.B.) See review, Issue #6

PROGRAMMING LANGUAGES

Parlez vous Pascal?
Sprecken ze COMAL?
Hablo de FORTH?
Do you speak BASIC?
INPUT BINARY? AFFIRM:

LOGO

Commodore
\$ 49.95 Diskette ****
for: C64

A no-contest best buy and probably the finest piece of software to bear the Commodore label to date.
(-B.D.) See review, Issue #3

C64-Forth/79

Performance Micro Products
\$ 69.95 Diskette ****+
for: C64
A Forth/79 development environment including 2D graphics extension (including line, circle, scaling, window and hi-res characters), screen editor, macro assembler with debugger and 167 page manual. Also includes 'Save TurnKey' for royalty free application program distribution.
(-B.D.) See review, Issue #3
>>>> Circle Reader Service No. 8 <<<<

KMMM Pascal

CGRS Microtech
\$ 85.00 Diskette ****+
for: C64
True compiler that generates machine code from Pascal source. Editor compiler, translator included. The translation program is excellent, providing a run-time package that is compact and fast (3 to 4 times faster than Oxford with our test program). The compiler is quick and efficient, unfortunately it does not support the full standard Pascal (the manual lists these deviations).
(-M.B.) See review, Issue #5

COMAL 0.14 Starter Kit w/book

Comal Users Group
\$ 29.95 Diskette ***
for: C64

COMAL's graphics are the best available anywhere...there are over 50 graphics commands. One complaint is that this disk-loaded version leaves you with only 10K of free memory, but you can't beat it, when it's free (from most users groups -which is perfectly legal). The book is well organized and very clear.
(-M.B.) See review, Issue #4

Oxford Pascal

Limbic Systems
\$ 39.95 Disk or Tape ***
for: C64

5 to 2 times faster than BASIC (but not quite as fast as KMM Pascal), supports graphics and sound, ability to chain programs for complex tasks, however the 'string' type is truly missed.
(-M.B.) See review, Issue #5

Ultrabasic-64

Abacus Software
\$ 27.95 Disk or Tape ***
for: C64

Adds 50 commands to BASIC including graphics, music, and turtle commands. Built-in screen-dump routines for most printers. Includes manual with 2-part tutorial and demo. (Tape version - \$24.95)
(-B.D.)

ADA Training Course

Abacus Software
\$ 59.95 Diskette
for: C64

Supports a subset of this high level language for teaching syntax, and features modular program construction, error checking at compile and run time, easy operation with program library, simple linking to machine language programs. Includes editor, compiler, assembler and disassembler.

C Power

Pro-Line
\$:na Diskette
for: C64

A C language compiler package for the C64. Works with 1 or 2 drives (including MSDs). Package includes disk and SAMS 'C Primere Plus' book. A full K&R C minus bit fields.

COMAL 19 Disk Set

Comal Users Group
\$ 94.95 Diskette
for: C64
First 19 COMAL disks, for COMAL 0.14.

COMAL C64 Sampler

Comal Users Group
\$ 19.95 Diskette
for: C64
Original C64 COMAL disk, includes sample graphics, music, games, utilities and more.

COMAL extras

Comal Users Group
\$:na
for: C64
COMAL demo disks, keyboard overlays, tutorials, utility disks, user group disks, books, and cartridges all at various prices (discounted to COMAL Today subscribers).

COMAL Intro Special

Comal Users Group
\$ 7.00 Diskette
for: C64
Economical way to get started with COMAL, includes: tutorial disk and auto-run disk.

COMAL Startup Special

Comal Users Group
\$ 11.00 Diskette
for: C64
Adds 'COMAL from A to Z' reference manual to the Intro Special.

COMAL, Best of

Comal Users Group
\$ 19.95 Diskette
for: C64
Double sided disk featuring some of the best COMAL 0.14 programs of 1984.

Forth Language

Abacus Software
\$ 39.95 Diskette
for: C64

Allows you to write programs that are more compact and efficient than BASIC yet easier to use than Assembly language. Built-in vocabulary which supports graphics, sound, the ability to create your own new words, also includes full screen editor, Forth assembler and handbook.

Green Pilot

Greenwood Software
\$ 20.00 Diskette
for: C64

A version of standard PILOT, that has been enhanced for easier use. Includes 'help' command.

Kyan Pascal, Advanced

Kyan Software
\$ 69.95 Diskette
for: C64

The expanded version of 'Standard Kyan Pascal' with advanced features and capabilities for the professional Pascal programmer. Includes standard version plus: machine code compiler, string handling, dispose, assign, chain, enhanced graphics and more.

>>>> Circle Reader Service No. 26 <<<<

Kyan Pascal, Standard

Kyan Software
\$ 49.95 Diskette
for: C64

Designed with the beginner in mind, with command menus, help screens, compiler error messages and tutorial manual. Memory resident, full screen text editor, file management system, stand-alone runtime environment, graphic extensions and full pass error detection.

>>>> Circle Reader Service No. 27 <<<<

M&M Forth

M&M Software
\$ 27.95 Diskette
for: C64

Disk based Forth language system. Includes screen editor, 6502 assembler, 80 page manual, and more.

Master-64

Abacus Software
\$ 39.95 Diskette
for: C64

Application development package with powerful commands for screen management, superior indexed file management, multiprecision math, machine language monitor and more. Adds 100 commands to BASIC and creates royalty free programs.

Pascal-64

Abacus Software
\$ 39.95 Diskette
for: C64

A structured language compiler of the well known standard Pascal, but enhanced to take advantage of the C64's special features. Supports sequential and relative files, procedures and functions, sprites, hi-res and multi-color graphics.

PDI Comal Starter Pak

Public Domain
\$ 35.00 Diskette
for: C64

A 4 disk collection consisting of Comal 0.14, demo's, games, and program aids.

Pilot II

Easyware
\$ 20.00 Diskette
for: C64

A pilot language interpreter with full high resolution turtle graphics and full sprite support, including a sprite editor built into the language. Registered versions with telephone support are available for \$40.



PROMAL

Systems Management Associates
\$ 49.95 Diskette
for: C64

Programming system including compiler, full screen editor and an operating system 'executive'. Similar to C and Pascal, but interactive. Executes faster than other high level languages and has MS-DOS-like commands. Includes 240 page manual, demo disk, money-back guarantee. Unprotected. Developers version (\$50 extra) lets you run PROMAL applications without system disk.

Super C Language

Abacus Software
\$ 79.95 Diskette
for: C64

Includes editor, compiler, linker and handbook. The editor lets you create source programs (up to 41k) containing 80 character lines and features horizontal scrolling, and compiles it to 6502 machine code. Linker lets you combine up to 7 modules for later execution.

Watcom Pascal

Watcom Products
\$ 149.00 Disk & ROM
for: C64

Features bit mapped graphics capabilities, procedures

Waterloo Structured Basic

Watcom Products
\$ 99.00 ROM
for: C64

Features structured statements, procedures, auto-line numbering, delete lines, and renumber.





SuperForth 64 + A.I.

Parsec Research
\$ 99.00 Diskette
for: C64 C128

Artificial intelligence expert system package for the C64 & C128 for writing 5th generation software. Gives you many additions and enhancements to standard FORTH. Create stand alone intelligent programs license free. A 496 page manual and two disks included. System compatible with cameras and i/o control cards. Also compatible with Fischertechnik Robotics Lab.

>>>> Circle Reader Service No. 39 <<<<

Video Basic-64

Abacus Software
\$ 39.95 Diskette
for: C64

Adds dozens of powerful commands to BASIC that let you create graphics and accompanying music or sound effects. Create royalty free software. Hardcopy printouts are possible with most dot matrix printers, for accessing sprites, SID chip, and any other i/o device.

COPY SYSTEMS



The it's still not
clear who can make
how many of which &
for what, these will
surely help you do it!

Fasthack' em

Basement Boys Software
\$ 29.95 Diskette
for: C64

Disk copier for MSD II, 1 or 2 1541s. Backup disks in under 3 minutes with one 1541, less than 60 seconds with MSD or 2 1541s. Programs drives for stand-alone operation; unplug them and they run along copying disks by themselves while you use your C64 for something else! New version includes 1541 nibbler to break the most stubborn protection. Our in-house disk copier.

(-M.B.)

Mr. Nibble

Full Circle Software
\$ 49.95 Diskette
for: C64

Full disk (35-38 track) copier is completely automatic (only swap disks), and takes less than 8 minutes. One of the best copiers currently available. Includes file copy program, fast formatter, and cute stickers.

(-M.B.) See review, Issue #7

Ultrabyte

Ultrabyte
\$ 39.95 Diskette
for: C64

Copies tracks 35-38, completely automatic; just swap-and-go. Takes less than 8 minutes. One of the best copiers currently available. Now includes one free backup copy.

(-M.B.) See review, Issue #7

Copy-Q

Radix Marketing
\$ 39.95 Diskette
for: C64

Fast copies and works with single, two-singles, or dual drives. Generates graphic display of track and sector activity while processing. Cracks most all copy-protection schemes. Can also recover damaged data and files.

(-B.D.)

Isepic

Star Point
\$ 64.95 Disk & ROM
for: C64

Revolutionary new concept in archival and software de-protection for the C64. A hardware and software package that allows you to make unprotected copies (with fastloaders if you are saving it to a 1541 disk) of all RAM resident programs. Cracked programs may then be copied onto other drive formats (i.e. SFD1001, MSD, 4040, 8050, etc.).

(-Staff)

New Revised Clone Machine

Micro-W
\$ 49.95 Diskette
for: C64

Now backs up non-standard sectors, reproduces density-frequency alterations, syncs to particular reference sectors and reformats single tracks. A MSD version is also available.

(-B.D.)

Di-Sector

Star Point
\$ 39.95 Diskette
for: C64

Fully automatic, view and alter sector headers, remove errors from tracks/sectors, write programs inside your 1541. Useful utilities included. Needs to be updated to handle newer protection schemes.

(-M.B.) See review, Issue #7

Ditto

Cardinal Software
\$ 39.95 Diskette
for: C64

Copies all but the latest copy protection schemes. Supports 1 or 2 1541 disk drives. Menu driven, easy to use, takes approximately 25 minutes and even backs itself up. Well supported by Cardinal Software.

(-M.B.) See review, Issue #7

Forth Language

Abacus Software
\$ 39.95 Diskette
for: C64

Allows you to write programs that are more compact and efficient than BASIC yet easier to use than Assembly language. Built-in vocabulary which supports graphics, sound, the ability to create your own new words, also includes full screen editor, Forth assembler and handbook.

Green Pilot

Greenwood Software
\$ 20.00 Diskette
for: C64

A version of standard PILOT, that has been enhanced for easier use. Includes 'help' command.

Kyan Pascal, Advanced

Kyan Software
\$ 69.95 Diskette
for: C64

The expanded version of 'Standard Kyan Pascal' with advanced features and capabilities for the professional Pascal programmer. Includes standard version plus: machine code compiler, string handling, dispose, assign, chain, enhanced graphics and more.

>>>> Circle Reader Service No. 26 <<<<

Kyan Pascal, Standard

Kyan Software
\$ 49.95 Diskette
for: C64

Designed with the beginner in mind, with command menus, help screens, compiler error messages and tutorial manual. Memory resident, full screen text editor, file management system, stand-alone runtime environment, graphic extensions and full pass error detection.

>>>> Circle Reader Service No. 27 <<<<

M&M Forth

M&M Software
\$ 27.95 Diskette
for: C64

Disk based Forth language system. Includes screen editor, 6502 assembler, 80 page manual, and more.

Master-64

Abacus Software
\$ 39.95 Diskette
for: C64

Application development package with powerful commands for screen management, superior indexed file management, multiprecision math, machine language monitor and more. Adds 100 commands to BASIC and creates royalty free programs.

Pascal-64

Abacus Software
\$ 39.95 Diskette
for: C64

A structured language compiler of the well known standard Pascal, but enhanced to take advantage of the C64's special features. Supports sequential and relative files, procedures and functions, sprites, hi-res and multi-color graphics.

PDI Comal Starter Pak

Public Domain
\$ 35.00 Diskette
for: C64

A 4 disk collection consisting of Comal 0.14, demo's, games, and program aids.

Pilot II

Easyware
\$ 20.00 Diskette
for: C64

A pilot language interpreter with full high resolution turtle graphics and full sprite support, including a sprite editor built into the language. Registered versions with telephone support are available for \$40.



PROMAL

Systems Management Associates
\$ 49.95 Diskette
for: C64

Programming system including compiler, full screen editor and an operating system 'executive'. Similar to C and Pascal, but interactive. Executes faster than other high level languages and has MS-DOS-like commands. Includes 240 page manual, demo disk, money-back guarantee. Unprotected. Developers version (\$50 extra) lets you run PROMAL applications without system disk.

Super C Language

Abacus Software
\$ 79.95 Diskette
for: C64

Includes editor, compiler, linker and handbook. The editor lets you create source programs (up to 41k) containing 80 character lines and features horizontal scrolling, and compiles it to 6502 machine code. Linker lets you combine up to 7 modules for later execution.

Watcom Pascal

Watcom Products
\$ 149.00 Disk & ROM
for: C64

Features bit mapped graphics capabilities, procedures

Waterloo Structured Basic

Watcom Products
\$ 99.00 ROM
for: C64

Features structured statements, procedures, auto-line numbering, delete lines, and renumber.





SuperForth 64 + A.I.

Parsec Research
\$ 99.00 Diskette
for: C64 C128

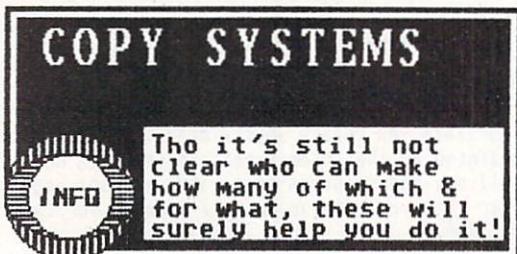
Artificial intelligence expert system package for the C64 & C128 for writing 5th generation software. Gives you many additions and enhancements to standard FORTH. Create stand alone intelligent programs license free. A 496 page manual and two disks included. System compatible with cameras and i/o control cards. Also compatible with Fischertechnik Robotics Lab.

>>>> Circle Reader Service No. 39 <<<<

Video Basic-64

Abacus Software
\$ 39.95 Diskette
for: C64

Adds dozens of powerful commands to BASIC that let you create graphics and accompanying music or sound effects. Create royalty free software. Hardcopy printouts are possible with most dot matrix printers, for accessing sprites, SID chip, and any other i/o device.



FastHack 'em

Basement Boys Software
\$ 29.95 Diskette
for: C64

Disk copier for MSD II, 1 or 2 1541s. Backup disks in under 3 minutes with one 1541, less than 60 seconds with MSD or 2 1541s. Programs drives for stand-alone operation; unplug them and they run along copying disks by themselves while you use your C64 for something else! New version includes 1541 nibbler to break the most stubborn protection. Our in-house disk copier.

(-M.B.)

Mr. Nibble

Full Circle Software
\$ 49.95 Diskette
for: C64

Full disk (35-38 track) copier is completely automatic (only swap disks), and takes less than 8 minutes. One of the best copiers currently available. Includes file copy program, fast formatter, and cute stickers.

(-M.B.) See review, Issue #7

Ultrabyte

Ultrabyte
\$ 39.95 Diskette
for: C64

Copies tracks 35-38, completely automatic; just swap-and-go. Takes less than 8 minutes. One of the best copiers currently available. Now includes one free backup copy.

(-M.B.) See review, Issue #7

Copy-Q

Radix Marketing
\$ 39.95 Diskette
for: C64

Fast copies and works with single, two-singles, or dual drives. Generates graphic display of track and sector activity while processing. Cracks most all copy-protection schemes. Can also recover damaged data and files.

(-B.D.)

Isepic

Star Point
\$ 64.95 Disk & ROM
for: C64

Revolutionary new concept in archival and software de-protection for the C64. A hardware and software package that allows you to make unprotected copies (with fastloaders if you are saving it to a 1541 disk) of all RAM resident programs. Cracked programs may then be copied onto other drive formats (i.e. SFD1001, MSD, 4040, 8050, etc.).

(-Staff)

New Revised Clone Machine

Micro-W
\$ 49.95 Diskette
for: C64

Now backs up non-standard sectors, reproduces density-frequency alterations, syncs to particular reference sectors and reformats single tracks. A MSD version is also available.

(-B.D.)

Di-Sector

Star Point
\$ 39.95 Diskette
for: C64

Fully automatic, view and alter sector headers, remove errors from tracks/sectors, write programs inside your 1541. Useful utilities included. Needs to be updated to handle newer protection schemes.

(-M.B.) See review, Issue #7

Ditto

Cardinal Software
\$ 39.95 Diskette
for: C64

Copies all but the latest copy protection schemes. Supports 1 or 2 1541 disk drives. Menu driven, easy to use, takes approximately 25 minutes and even backs itself up. Well supported by Cardinal Software.

(-M.B.) See review, Issue #7

Canada A/M

Skylight Software
\$ 39.95 Diskette ***-
for: C64

This is an easy to use back up system that will break much of the copy-protection (up to about late 1984). Informative on-screen readouts, users simply swaps disks when prompted (on-screen and audio-signal) and Canada A/M does the rest. Can take up to 20 minutes to make a copy.

(-B.D.) See review, Issue #7

Apollo

Comptron Business Systems
\$ 29.95 Diskette ,
for: C64

Latest generation single-drive copy program copies all errors, bad tracks and sectors, non-standard formats, bad syncs, and half tracks. Replaces Megasoft's Gemini copier.

Capture

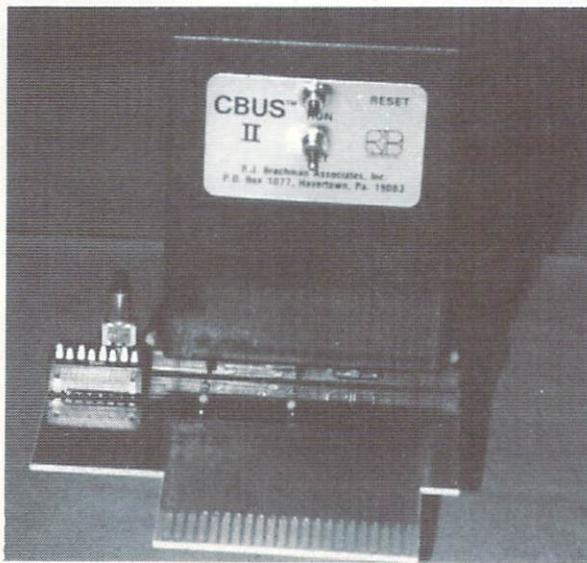
Jason-Ranheim
\$ 39.95 ROM
for: C64

C64 copier similiar to Star Point's 'Isepic'. For additional \$\$\$ you can get various eproms.

Cartridge Backer

CSM Software
\$ 54.95 Diskette
for: C64

Allows you to make disk based archival copies of 99% of the cartridges (and many disk programs) on the market. Create your own autoboots and copy files to or from disk or tape. No external ram boards, roms or cartridges required. Includes manual, expansion board with re-set switch, and program disk.

**CBUS**

R.J. Brachman Associates
\$ 99.95 Diskette
for: C64

Cartridge Back-up System for the C64, that lets you copy any standard cartridge to disk. The CBUS II cartridge emulator lets you 'play back' any standard cartridge image from disk. A diskette is included with the system which contains all necessary programs. The entire process is fully automated and takes under 2 minutes for a given cartridge.

Copy II 64

Central Point
\$ 39.95 Diskette
for: C64

Copies nearly all protected software (under 3.5 minutes) for archival backups. Recreates all errors, half tracks, non-standard sectors, changed data rates, duplicate sectors and many special track formats. Works with printer and other devices plugged in, maximum 4 swaps, and NOT copy protected itself.

Disk Maker 3.3

Basix
\$ 49.95 Diskette
for: C64

Fully automatic, copies G.C.R. code protection / no-sync data blocks / includes long data-block logic / copies up to track 40 / 3 copiers; fast copier, vari-sector copier, & auto-logic nibbler. Full disk copied in 2.75 min. Uses 'Masterkey module' which contains updatable routines. Indus GT version available. Product support phone # and future module updates.

Disk Master

Quantum Leap
\$ 6.00 Diskette
for: C64

Two programs on disk, one is a copy program and the other is a utility to view, edit, and printout data from disk.

MSD Sure Copy

MegaSoft
\$ 39.95 Diskette
for: C64

Copies protected & unprotected disks on MSD drives. Includes several additional disk utilities.

Omnicleone

CSM Software
\$ 35.00 Diskette
for: C64

Three minute copy program, unprotected and fully documented. Copies 99% of all C64 software. Programmer's source code is included on the disk and is fully commented. Learn about high speed data transfer, m.l. programming and more.

PSA/A.B.C.

Peripherals System of America
\$ 29.95 Diskette
for: C64

Archival Backup Copy, is a high speed disk backup program that backups protected disks. Works with 1 or 2 1541s.

Quickcopy V 2.0

Abacus Software
\$ 19.95 Diskette
for: C64

Copy an entire disk in 2.5 minutes using two drives or 3.5 minutes using a single drive. No hardware modification is needed, reliable, and copies all file types.

Shadow

MegaSoft
\$ 89.95 Diskette
for: C64

Software / hardware combination. 'It will even copy the other copy programs' Claims to copy 100% of all software for the C64.

The Mirror

CompuMed
\$ 24.95 Diskette
for: C64

Automatically makes back-ups using nibbling, half tracks, extra sectors and tracks, reproduces all disk errors, even copies itself.

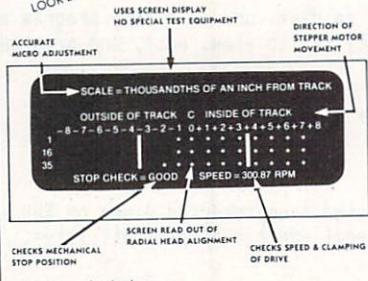
UTILITIES

INFO

Covers just about
everything else you
can do with data and
diskettes besides copy
them.

1541 PHYSICAL EXAM

IS YOUR 1541 HEALTHY?
OR WOULD ITS PHYSICAL EXAM
LOOK LIKE THIS ONE?



Package includes:
• True digital alignment disk with offset tracks
• Quiet Drive stops to reduce need for
continued realignment on old style drives.

1541 Physical Exam

Cardinal Software
\$ 39.95 Diskette ****
for: C64

Tests the speed of the 1541 and checks for misalignment. Includes complete instructions to perform the alignment and adjust the speed, 2 replacement stops (to use in place of the standard rigid stop) which cushion the read/write head from being knocked out of alignment again.

(-M.B.)

Fast Load

Epyx
\$ 39.95 ROM ****
for: C64

Cartridge based disk speed-up program with a 3 to 5 fold increase in speed (loading only.) Includes utilities like machine language monitor, copier (for non-protected disks) and a dos wedge for simpler disk commands.

(-B.D.) See review, Issue #7

Mach 5

Access Software
\$ 34.95 ROM ****
for: C64

Like Epyx's 'Fast Load' with additional commands like 'hardcopy' and 'disable drive rattle'. A disk is also included with 2 programs: Disk Organizer and BASIC Plus 4K which frees up an additional 4K of BASIC memory.

(-B.D.)

PEEK A BYTE - COPYRIGHT 1984 SLAYMAKER

DISPLAY

A - HEX/Char
Z - ASCII/Screen
X - Reverse/Norm

PARAMETERS

I - Track
S - Sector
B - Buffer
ctrl D - Drive
ctrl U - Unit

R/S quits command
Q quits program

Quantum Software
Serial # 000000

FUNCTIONS

ctrl B	- BAM
C	- Convert
D	- Disassem
E	- Edit
F	- Fill
ctrl G	- Fill0/FF
J	- Goto
M	- Jump
ctrl M	- Monitor
P	- Memdrive
ctrl S	- Printer
U	- Search
ctrl U	- Un-new
ctrl V	- Verify1
ctrl W	- Verify2
shft S	- Directry

Command Mode Press Any Key

More HELP Press H

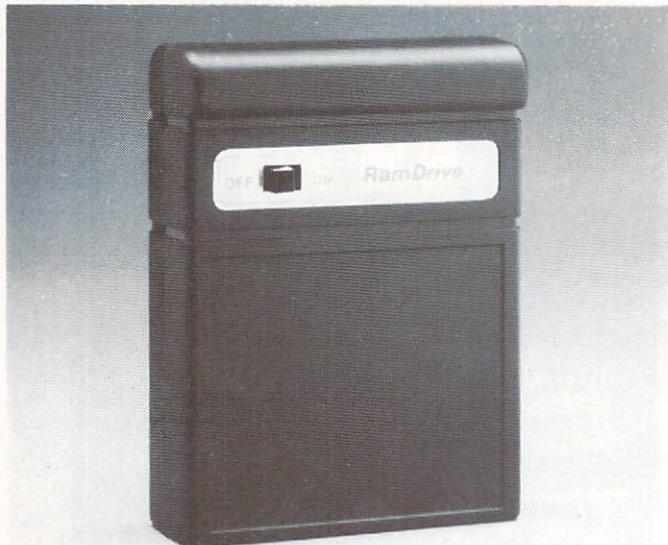
Restart PEEK A BYTE SYS 49152

Peek A Byte 64 V2.0

Quantum Software
\$ 35.00 Diskette ****
for: C64

With 'Disk Mechanic V2.0'. Excellent track and block editor for the C64 & 1541. It is memory-resident and compatible with the DOS wedge and machine code monitor. Read and modify header information, data under errors, directory information. Displays in hex, ASCII, screen codes, and will disassemble M/L programs. The best programmers utility since the monitor; an indispensable tool for the serious programmer.

(-M.B.)
">>>> Circle Reader Service No. 31 <<<



RamDrive 28

T.I.E. Limited
\$ 34.95 ROM ****
for: C64

Memory manager and utility software cartridge. Partitions RAM under ROM to be used as 28K RAMdisk. Provides 45 BASIC, program management, and DOS commands to simplify operation and use of the C64. A very useful place for programmers to keep often-used utility programs; access is FAST. Great for program development, but unfortunately incompatible with most commercial software.

(-M.B.)
>>> Circle Reader Service No. 34 <<<

64 Doctor

PractiCorp International
 \$ 19.95 Disk or Tape ***-
 for: C64

Simple diagnostic programs for the C64 that can verify your own good hunches about what's not working. Tests drive, keyboard, video, audio, printer, joystick, RS-232 port and RAM. Cute, overpriced, you can live without it.

(-B.D.)

Mr. Tester

Micro-W
 \$:na Diskette ***-
 for: C64

Tests certain basic aspects of your computer and common peripherals: cassette drive, disk drive, printer, joystick or monitor. It won't tell you if some weird serial bus problem is hanging up your system, but it will tell your disk drive speed, sticky keyboard, etc.

(-M.B.) See review, Issue #6

1541 Alignment Program V2.0

CSM Software
 \$ 44.95 Diskette
 for: C64

A two disk program and calibration package that allows anyone with average mechanical skills to properly align the 1541 disk drive in a half hour or so. Check and adjust your drives rotational speed, track centering and track 1 position, to correct specifications. No special equipment needed and includes a specially prepared digital calibration disk.

>>>> Circle Reader Service No. 2 <<<<

ApSoft-64

FS! Software
 \$ 39.95 Diskette
 for: C64

An extension to Commodore BASIC which adds Applesoft commands to the usual BASIC commands. Programs originally written for the Apple in Applesoft BASIC may be run under ApSoft-64 once they are put on a Commodore-format disk. Includes hi-res graphics, split screens, music synthesis and sprites. Also, a speedy loader, data base manager, check book balancer, and more.

>>>> Circle Reader Service No. 5 <<<<

Auto64Directory

George Earl
 \$ 29.95 Diskette
 for: C64

Backups, screen color changes, run a program, saves, deletes and formats.

B/Graph

Batteries Included
 \$:na Diskette
 for: C64

Professional quality graphics, charting and statistical package.

C-64 Utility City

Value Plus Software
 \$ 19.95 Diskette
 for: C64

Contains 8 of the most used utilities: cataloger, file copier, fast whole disk copier, etc.

Cadpak-64

Abacus Software
 \$ 49.95 Diskette
 for: C64

Tool for computer aided design and drawing. Using a lightpen, you draw directly on the screen to create, edit pictures, drawings, layouts, etc. quickly, accurately and artistically. Menu driven and includes rotation and zoom capabilities. Hard copy with most dot matrix printers.

Cataloger

Aquarian Software
 \$ 24.95 Diskette
 for: C64

Finds any program quickly / tells which disk program is on / gives name, id, side of disk, and category of program / protection errors used / date program was entered / block count / and comments. Sort and print list by any of 12 fields.

Chartpak-64

Abacus Software
 \$ 39.95 Diskette
 for: C64

Make professional quality charts without any programming. You can enter, edit, save and recall your data. Then you interactively build pie, bar, line or scatter graphs. Includes statistical routines for average, standard deviation, least squares and forecasting. Works with most printers.

Chartplot-64

Abacus Software
 \$ 84.95 Diskette
 for: C64

Like a sister to Abacus's 'Chartpak-64', but you can also record the final results onto plotters. You can also use data from spreadsheets such as 'MultiPlan', 'CalcResult' or 'BusiCalc'. You control the chart building from the keyboard. Pie, bar and line charts.

D-compiler

MegaSoft
 \$ 59.95 Diskette
 for: C64

'de-compiler' gives you back your source code after you have compiled it with Blitz (Skyles Electric Works)

Dialog

CodeWriter
 \$ 50.00 Diskette
 for: C64

Create all the interactive programs you can imagine without programming. Simple on screen process which allows you to create programs to educate, inform or just entertain.

Disk Exerciser

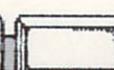
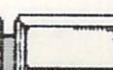
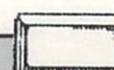
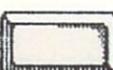
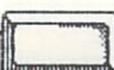
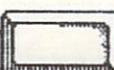
Genesis Software
 \$ 29.95 Diskette
 for: C64

Disk diagnostic program enabling disk drive testing, read, write, scan, seek, disk speed plus full disk editor.

Disk Library

Genesis Software
 \$ 19.95 Diskette
 for: C64

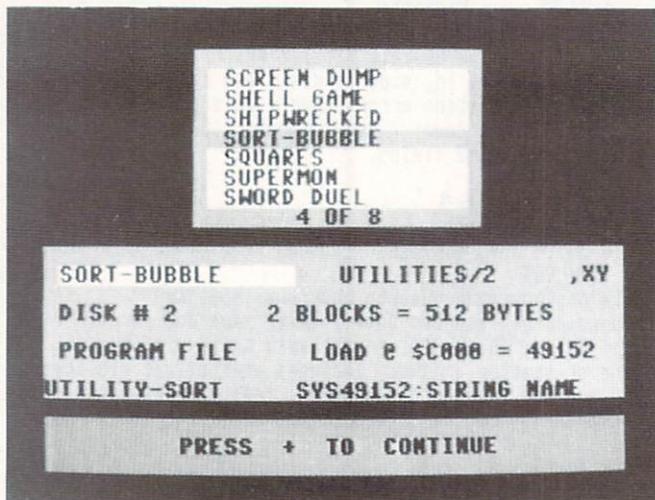
A database for disk users. Add, update, search, print disk labels, and print reports.



Disk Organizer

Cardinal Software
\$ 24.95 Diskette
for: C64

Utility disk with programs for: backup, disk copy, directory sort, backup marker (marks programs which have been backed up), directory print and library maintains disk directories and allows them to be printed.



Disk Sleuth

Nth Digit Solutions
\$ 24.95 Diskette
for: C64

Catalogs the contents of up to 100 disks into an alphabetized master directory disk. Each program entry contains full program information, including up to 40 characters of personal comments. Directory can be viewed, printed or searched. Allows key files to group programs by type.

Disk-Lock V2.1

Aquarian Software
\$ 39.95 Diskette
for: C64

Copy protection scheme for users. Claims to stop over 90% of all copy programs. Multiple protection schemes. Puts protection on any track from 1 to 40. Menu-driven.

EZ-DOS

Genesis Software
\$ 19.95 Diskette
for: C64

A menu driven DOS program supporting all DOS commands plus lock/unlock files, unscratch, change disk name, and print disk directory.

Masterdisk v2.0

Integrated-Software System
\$ 19.95 Diskette
for: C64

Fully integrated, automatic disk cataloging system with disk repair utilities. Dual drive version (for 4040, MSD, etc.) available soon.



Hard Copy

FS! Software
\$ 29.95 Diskette
for: C64

Screen dump utility that waits until a special three-key press occurs then translates the screen colors into grey scale patterns on a dot matrix printer. With the Epson JX-80 true color pictures may be obtained. A special graphics-artist mode allows for color separations. Configures to individual printers.

>>> Circle Reader Service No. 24 <<<

MenuWriter

CodeWriter
\$ 40.00 Diskette
for: C64

Links programs together so the user can select the program he needs by pressing one key. Menus can call other menus or programs, you control the whole process (screen color, layout and key choice).

Operating System

Hacker's Hardware
\$ 54.95 ROM
for: C64

Reconfigures the C64 to operate under RAM Control rather than ROM. Supports all Kernel versions. Formerly sacred areas of the computer are now available to the novice or hacker alike.

ReportWriter

CodeWriter
\$ 40.00 Diskette
for: C64

Lets you make your data into information that can be reorganized and presented to help you make decisions. You create a report which can be simple columns of figures, a memo, a check, a label, or whatever.

Screen Dump

Cardinal Software
\$ 19.95 Diskette
for: C64

Dumps the characters on the C64 screen (with the exception of sprites) with the touch of two keys. Compatable with virtually all available software. Machine language.

Slik Load

Megasoft
\$ 29.95 ROM
for: C64

Cartridge fast-loader with utilities. Claims 5 X speed improvement for loading. Eliminates drive rattle. Status key gives device number, bytes free, and drive status.

Smart Start

Muse Software
\$ 39.95 Diskette
for: C64

Adds a more 'user-friendly' front end to Commodore BASIC. Cartridge allows you to load, run, and save programs at the touch of one key. Create sprites and sound effects and have the BASIC code automatically generated.

StarDOS

Star Point
\$ 74.95
for: C64

ROM replacement which speeds up disk access and writing, eliminates head-knock, DOS wedge, built-in 3 minute copier, and more.

SuperSpriter Deluxe

Nufekop
\$ 49.95 Diskette
for: C64

Package of programs designed for the above average C64 user. Includes Koala pad driven sprite editor, editor for designing scrolling screens, and many disk related programs.

Symbol Master

Schnedler Systems
\$ 49.95 Diskette
for: C64

Symbolic disassembler for converting 6502, 6510, 8502, etc. machine lang. programs into highly readable source code. The use of labels, coded as to usage, on each line referenced by another instruction allows one to see the overall structure and flow of a program. Outputs source code files compatible with each of 6 different assemblers for editing and re-assembly.

Tool Box

MegaSoft
\$ 19.95 Diskette
for: C64

Over 100 routines for the C64 including: protection, smooth scrolling, modem routines, and sound & color. Routines may be incorporated into your programs.

Top Secret Stuff

MegaSoft
\$ 19.95 Diskette
for: C64

A collection of some 15 or so unusual disk drive utilities for the 1541. Includes error makers and readers, 1/2 track schemes, 10-sec. format, 3-min. copy view bam, id check, and sync maker/reader routines (to name a few.)

(-Staff)

Ultra-Wedge

D&A Enterprises
\$ 14.99 ROM
for: C64

Disk wedge program on cartridge (with re-set switch).

ARCADE AND ACTION GAMES



BIFF!! BAMM!! BOFF!!
ZOWIE!!... Shoot up
the bad guys, save
the universe, and
rack up top score!!

Blue Max

Synapse Software
\$ 34.95 Disk or Tape *****
for: C64

Strafing and Bombing actually made fun. Very detailed animation, graphics and sound. Blue Max is like a World War I version of 'Zaxxon', with angled scrolling and realistic shadow under planes. Readouts for fuel, damage, wind, landing gear, etc.

(-B.D.) See Gallery, Issue #3

Centipede

Atarisoft
\$ 44.95 ROM *****
for: C64

Once again, a completely convincing adaptation of the classic with all the nuances of the original.

(-B.D.)

Dig-Dug

Atarisoft
\$ 44.95 ROM *****
for: C64

One of our all-time favorite arcade games that is faithfully recreated for the C64. All the detail of the original: screens, patterns, animation and pleasing game-play. A nice extra is the ability to start at any screen and proceed from there. Hours of fun guaranteed.

(-B.D.) See Gallery, Issue #3

Donkey Kong

Atarisoft
\$ 44.95 ROM *****
for: C64

The original Nintendo arcade game brought to Commodore by Atari. If you need this game described then you must have been off the planet the last few years. The C64 version even outshines the atari version.

(-B.D.) See Gallery, Issue #2

Night Mission Pinball

Sublogic
\$ 39.95 Diskette *****
for: C64

An award winning pinball simulation with ten levels of play. Also features an editor for customizing the game.

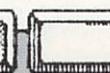
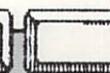
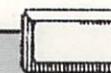
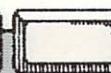
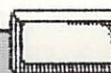
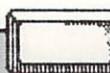
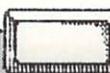
(-B.D.)

Pit Stop II

Epyx
\$ 39.95 Diskette *****
for: C64

This is not only the best car-racing game make for the C64, but easily one of the top 10 arcade games of all time for the 64! The dual-screen is incredible with each driver seeing the same world from his own position. Every detail is included, from changing tires & fuel to steering response. The smooth animation is 1st rate. For 1 or 2 drivers.

(-B.D.) See Gallery, Issue #6



Q*Bert

Parker Brothers
\$ 44.95 ROM
for: C64

An absolutely faithful rendition of the coin-op favorite. The C64 version surpasses all the others. Superb animation, sound, graphics and game-play. (-B.D.) See Gallery, Issue #2

Wizard

Progressive Peripherals
\$ 29.95 Diskette
for: C64

This sensational 50-screen sizzler is sure to delight any fan of the 'jumpman-genre'. Goes further than just ropes and ladders with brilliant animation, visual humor, creative spells and professional sound effects. Best of all is the full-blown construction set mode, allowing user control over all graphics and game-play parameters.

(-B.D.) See Gallery, Issue #5

Zaxxon

Synapse Software
\$ 39.95 Diskette
for: C64

This 3-D effect video game with angled scrolling and shadowing is a real winner. Need we say more? (-B.D.) See Gallery, Issue #5

Archon II: Adept

Electronic Arts
\$ 39.95 Diskette
for: C64

*****+

Played on a board where icons occupy the squares, and in an arena where icons race around trying to zap each other, the object of Archon II is to occupy all six power points (they move around, increasing the difficulty). For 1 or 2 players.

(-B.D.) See Gallery, Issue #7

Archon

Electronic Arts
\$ 39.95 Diskette
for: C64

*****+

Played on a board where icons occupy the squares, and in an arena where icons race around trying to zap each other, the object of Archon is to occupy all six power points (they move around, increasing the difficulty). For 1 or 2 players.

(-B.D.) See Gallery, Issue #7

David's Midnight Magic

Broderbund
\$ 34.95 Diskette
for: C64

*****+

Convincing physics makes this pinball simulation stand out, but the sound effects could have been much better.

(-B.D.) See Gallery, Issue #1

Impossible Mission

Epyx
\$ 34.95 Diskette
for: C64

*****+

Life like movements of high resolution graphics like the hero running down hallways and somersaulting over enemy robots. Neither is this an anti-climax or a one-dimensional game. At its heart IM uses the classic video game structure of multiple rooms with catwalks, tokens and lots of enemies and adds puzzles, graphics, sound and speech synthesis.

(-B.D.) See Gallery, Issue #5

Jumpman

Epyx
\$ 39.95 Diskette
for: C64

*****+

One of the all time greats, you can play this rope & ladders game for weeks without getting bored. (-B.D.) See Gallery, Issue #1

Raid Over Moscow

Access Software
\$ 39.95 Diskette
for: C64

*****+

An engrossing multi-screen challenge, requiring skills similar to those needed in 'Beach Head' and then some. ROM also allows you to relax through the demo mode until the later screens appear and moving your joystick activates game mode and you can then practice.

(-B.D.) See Gallery, Issue #5

Spy vs. Spy

First Star
\$ 29.95 Diskette
for: C64

*****+

True to the MAD magazine comic strip, these well known spy guys bounce back from repeated slayings and set backs. Fortunes change in favor of one spy and then the other. Two players can play simultaneously or the computer will play one.

(-B.D.) See Gallery, Issue #5

Wizard Construction Set

Progressive Peripherals
\$ 29.95 Diskette
for: C64

*****+

New sequel to Wizard with another 40 screens and an improved construction set. Requires original Wizard.

Ant Attack

QuickSilva
\$ 29.95 Diskette
for: C64

Striking similar to 'Realm of Impossibility' in many ways, tho by different authors. Animated stick-figures go scurrying around a 3-D city trying to rescue buddies from large ants who happen to eat animated stick-figures. Large scrolling world offers plenty of variation. A first-class 'fight & flee' game for one player.

(-B.D.) See Gallery, Issue #6

Beach-Head

Access Software
\$ 34.95 Diskette
for: C64

First-rate naval battle simulation with multiple screens. Smooth 3-D machine language, arcade-quality animation and sound. War may be hell, but Beach-Head is fun.

(-B.D.) See Gallery, Issue #2

Bugaboo

Quicksilva
\$ 29.95 Disk or Tape
for: C64

This gets high marks for originality. Whimsical fantasy game in which you are a cute little flea trying to avoid a flea-eating pterodactyl.

(-B.D.) See Gallery, Issue #3

Castles of Dr. Creep

Broderbund
\$ 19.95 Diskette ****
for: C64

If you are worried about 'video mind-rot', but no one at your house will touch anything but arcade games, then throw this one at 'em. A challenging mental puzzle requiring memory and visualization skills of considerable proportion to solve. Good sound and graphics.

(-B.D.) See Gallery, Issue #6

Championship Lode Runner

Broderbund
\$ 34.95 Diskette ****
for: C64

50 complex screens, each more intricate and difficult than any in the original L.R., this requires concentration and ingenuity to complete, no screen building in this one. FOR LODE RUNNER EXPERTS ONLY!
(-B.D.)

Frogger -by Parker Bros.

Parker Brothers
\$ 39.95 ROM ****
for: C64

Again, a very good translation of a the very popular arcade game.
(-B.D.)

Frogger -by Sierra

Sierra On-Line
\$ 34.95 Diskette ****
for: C64

The official version of the popular arcade game by SEGA comes to the C64 with every nuance intact except the coin-slot and the aroma of pizza. Impressive music and sound, smooth animation. You can't get closer to the original than this.

(-B.D.) See Gallery, Issue #1

G.I. Joe

Epyx
\$ 19.95 Diskette ****
for: C64

This game is quite decent with several phases including hero/opponent choices, missions selection, and combat. While the hand-to-hand combat sequences are a bit goofy, the equipment combat is better than either 'Blue Max' or 'Bungeling Bay'.
(-B.D.) See Gallery, Issue #7

Gumball

Broderbund
\$ 34.95 Disk or ROM ****
for: C64

Direct gumballs along a network of pipes by opening and closing gates in an effort to sort the gumballs into bins. Meet your quota before the 5 o'clock whistle blows. The highest scores are recorded on disk for posterity. Work your way up to more colors and faster production. Addicting.
(-B.D.) See Gallery, Issue #6

Karateka

Broderbund
\$ 29.95 Diskette ****
for: C64

Your are trained in karate and you must save your beloved princess Mariko from the evil warlord. To do so you must defend yourself against a series of palace guards and make your way through the palace. Excellent graphics and animation.
(-B.D.)

Lode Runner

Broderbund
\$ 34.95 Diskette ****
for: C64

A tiny 'Gumbi' like figure, the lode runner races along catwalks and climbs ladders collecting bungeling booty and escaping the guards. Lode Runner carries a laser to shoot through the floor making a trap for the guards or an escape route for yourself. Edit mode enables creation of screens.

(-B.D.) See Gallery, Issue #5

Pac-Man

Atarisoft
\$ 44.95 ROM ****
for: C64

It's the real thing! What else can we say?
(-B.D.)

Perplexian Challenger

Progressive Peripherals
\$ 15.95 Disk or Tape ****
for: C64

The best 'flying thru space, looking thru the viewscreen' game we've seen. This nifty rendition has lots of little goodies, especially the cunning sound effects! Even the 'game over' sequence is a gem.
(-B.D.) See Gallery, Issue #3

Pogo Joe

Screenplay
\$ 39.95 Diskette ****
for: C64

A 3-D fully animated, multiple-screen game of the 'Q*Bert' persuasion. If you can finish the 10th screen and correctly report the word that appears, you get to enter Screenplay's drawing for \$10,000! Even if you don't get the cash, you'll have lots of fun.
(-B.D.) See Gallery, Issue #3

Raid on Bungeling Bay

Broderbund
\$ 29.95 Diskette ****
for: C64

The enemy territory covers 100 screens' area. Each of six island factories keeps building the war machine until it is destroyed. You carry 9 bombs and your guns never run out of ammo. If tanks and anti-aircraft guns don't destroy you, fighter planes with heat seeking missiles just might.
(-B.D.) See Gallery, Issue #5

Realm of Impossibility

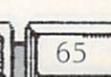
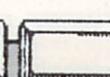
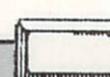
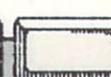
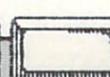
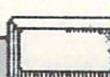
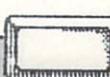
Electronic Arts
\$ 39.95 Diskette ****
for: C64

Deluxe edition of zombies. Has simultaneous two player action (& without each other you're dead meat), 13 dungeons and 129 rooms. Frantic action with poor character/background relationship. Also has an eye opening 'warp-speed' scrolling between screens.
(-B.D.) See Gallery, Issue #6

Robotron:2084

Atarisoft
\$ 44.95 ROM ****
for: C64

If you liked it in the arcades, you'll be happy with this Atarisoft's conversion of the Williams game for the C64.
(-B.D.) See Gallery, Issue #2



Spelunker

Broderbund
\$ 29.95 Diskette ****
for: C64

Jump over chasms, climb from rope to rope, battle ghosts and bats, and navigate underground streams in this maze-style action game with a strategic element. Licensed from MicroGraphicImage who released it for Atari in 1983.

(-B.D.)

Worms

Electronic Arts
\$ 34.95 Diskette ****
for: C64

A unique game in which players (up to 4) program their colorful, musical Worms to take over and dominate the game grid. The C64 will play the parts of any missing players.

(-B.D.) See Gallery, Issue #3

Blagger

Net Software
\$:na Diskette ****-
for: C64

Developed in England, this jumpman style game stars a burglar type who must deal with moving floors, poisonous bushes, holes in the floor and watch-robots among other things while collecting keys and other necessities of the trade. 30 rooms / 5 skill levels.

(-B.D.)

Star Wars

Parker Brothers
\$ 44.95 Diskette ****-
for: C64

Intruding into your spaceship's rectangular view screen are four laser cannons, which don't move but fire at a movable sight. Targets include other spaceships and gas clouds. Joystick up/down action is reversed (pulling back results in downward movement, etc.).

(-B.D.) See Gallery, Issue #5

Trolls & Tribulations

Creative Software
\$:na Diskette ****-
for: C64

Watch your step as you skulk around in what appears to be the sewer system of some ancient city: your troll must dodge the under-city denizens who patrol this hazardous but treasure-littered maze. 7 levels and 200 chambers.

(-B.D.) See Gallery, Issue #7

Axis Assassin

Electronic Arts
\$ 34.95 Diskette ****+
for: C64

Survive the web-spinning 'master-arachnid' and rescue extra men from its nest.

(-B.D.)

Defender

Atarisoft
\$ 44.95 ROM ****+
for: C64

A classic in the arcades (I'm glad that Atari spent some of my quarters on the R&D to bring this out on cartridge for the C64!). The controls lack the original's responsiveness and leaves the Earth in much greater danger!

(-B.D.)

Flip & Flop

First Star
\$ 39.95 Diskette ****+
for: C64

Inventive animated game that has you hopping all over the place, then just when you've got the hang of things, you're suddenly upside down, climbing and hanging around.

(-B.D.)

Fort Appocalypse

Synapse Software
\$ 34.95 Diskette ****+
for: C64

Take your jet copter down thru tunnels and caves. Good arcade action, but the difficulty of surviving, makes this game a bit frustrating.

(-B.D.)

Gridrunner

HES
\$ 39.95 ROM ****+
for: C64

Fast & colorful, somewhat reminiscent of Atari's 'Centipede' but with many original twists.

(-B.D.) See Gallery, Issue #1

Gridtrap

JR Import
\$:na Diskette ****+
for: C64

If you want a sample of the recreational software that is popular in England, you can find quite a selection from JR Imports. The idea here is to defuse the red bomb, evade the wandering boot, stay clear of the skulls, and watch out for traps as you travel about the grid.

(-B.D.) See Gallery, Issue #6

Hard Hat Mack

Electronic Arts
\$ 34.95 Diskette ****+
for: C64

An entertaining arcade game, along the lines of, but not quite as good as 'Jumpman'.

(-B.D.)

Neutral Zone

Access Software
\$ 34.95 Diskette ****+
for: C64

Deep space combat with smooth scrolling (360 degrees), 3-D realism and great sound effects. All machine language and hi-res. graphics.

(-B.D.)

Rock n' Bolt

Activision
\$:na Diskette ****+
for: C64

Your job is to move up thru the various levels of a skyscraper, and bolt down the girders which are sliding around all over the place. You must arrange them exactly as the blueprint inset shows. Cute with nice sound and music, but it doesn't begin to equal the calibre of Activision's recent hit 'GhostBusters'.

(-B.D.) See Gallery, Issue #6

Saucer Attack

Sachs Enterprises
\$ 29.50 Diskette ***+

for: C64

Don't let one nice graphic screen fool you into thinking there are more. Only one other screen is included in this game and it shows a slightly larger flying saucer, the mother ship, hovering in space. If you win the game, the capitol screen returns with a small fireworks display, an anticlimax.

(-B.D.) See Gallery, Issue #5

Scrolls of Abadon

Access Software
\$:na Diskette ***+

for: C64

You travel around on a sliding grid looking for scrolls, your travels are complicated by the restriction that you may not retrace your steps in an opposing direction. This is my least favorite offering from Access Software so far.

(-B.D.) See Gallery, Issue #6

Beach-Head II

Access Software
\$ 34.95 Diskette ***

for: C64

Sequel to Beach Head I. Live action video footage was supposedly used as a basis for the animation of BH II's characters. The result of such graphics techniques, combined with digitally simulated cries like 'Medic!', and 'Ahhh! I'm hit!', is a bloody game which seems best suited for 10 year old boys who have a limited comic-book allowance, and have tired of torturing G.I.-Joe at the hands of Skeletor!

(-B.D.)

Moonsweeper

Imagic
\$:na Diskette ***

for: C64

Has some interesting effects, but suffers from repetition. The foreshortened scrolling background is perhaps the game's strongest feature. Basically you shoot the creeps, rescue the good folk, and get the heck out. Then do all over again (and again...) with increasing levels of both difficulty and tedium.

(-B.D.) See Gallery, Issue #7

Motor Mania

United Microware Industries
\$ 29.95 Tape ***

for: C64

Smooth scrolling animated driving game is quite enjoyable. One of the earliest machine language games that came out for the C64, it's still fun after all these years.

(-B.D.) See Gallery, Issue #1

Pole Position

AtariSoft
\$ 39.95 Diskette ***

for: C64

A big hit in the arcades, but the magic has not been translated well for the C64. Chunky graphics and animation, unsophisticated sound effects and unconvincing joystick response, make this racing game seem like an amateur effort. If you want a really hot racing game, you won't find it here.

(-B.D.) See Gallery, Issue #6

Purple Turtles

Quicksilva
\$ 29.95 Tape ***

for: C64

An entertaining, well-animated, non-violent game that has you crossing a stream on the backs of unpredictable diving turtles (sort of like Frogger only in cross section).

(-B.D.) See Gallery, Issue #2

Targon 64

Net Software
\$:na Diskette ***

for: C64

Pretty standard space shoot-em' up fare here, with some better than average sprite design, which results in some targets that are not unlike those found in the Atari arcade hit 'Xevious'.

(-B.D.) See Gallery, Issue #6

Warp!

Creative Software
\$:na Diskette ***

for: C64

After games like 'Pit Stop II', the animation seems pretty unsophisticated. An obvious attempt at variety and originality in the game elements keeps this outside the kennel, but not by much. If you want to add a Creative title to your collection try 'Trolls & Tribulations'.

(-B.D.) See Gallery, Issue #7

Indiana Jones / Lost Kingdom

MindScape
\$ 29.95 Diskette ***-

for: C64

The idea is great: a set of problem-solving games with no instructions where you must use your wits & logic, like 'Indy' would to survive and complete the 6 rooms. Unfortunately all fail to translate this into a satisfying product. This game is boring and roughly animated. Sure to disappoint Indiana Jones fans.

(-B.D.) See Gallery, Issue #7

Alpha-Omega Run

Nanosec
\$:na Diskette ***+

for: C64

Routine space-opera number lacks anything special to recommend it over scores of predecessors. Line 'em-up and shoot 'em-down. Save the world. You'd think that programmers would get tired of grinding out these endless shoot-em-up clones.

(-B.D.) See Gallery, Issue #7

Vaudeville

Showbiz
\$ 24.95 Diskette ***+

for: C64

The premise itself is pretty dry: pick up plates, spin them on sticks, keep them spinning and duck flying objects. What really drags this game down is the execution: blocky sprites, character graphics and crude animation.

(-B.D.) See Gallery, Issue #7

3 for Fun

JAL Software
\$ 12.95 Diskette

for: C64

3 joystick controlled action games in compiled BASIC. Backwoods driver, Fastrack, and Rainball.

Arcade Album

Penguin Software
\$ 19.95 Diskette
for: C64

Collection of 3 games, 'Spy's Demise', 'Spy Strike Back', and 'Thunderbombs'.

Ballblazer

Epyx
\$ 39.95 Diskette
for: C64

A Lucasfilm game where you and an opponent scurry around a 3-D playing field, each trying to gain possession of a fast moving ball. Features high speed action and futuristic looking graphics.

Bandits at 4 o'clock

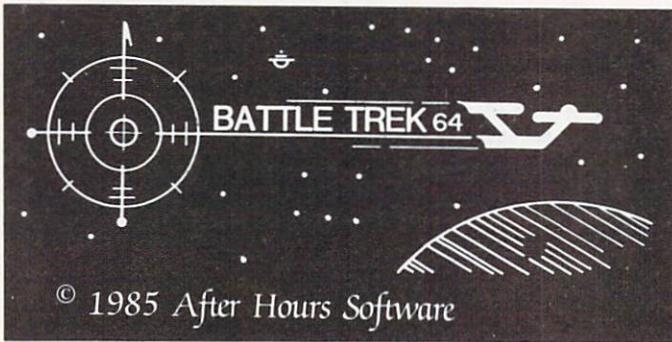
Infinity Software
\$ 25.00 Diskette
for: C64

Recreates a WWII scenario which places you as the tail gunner in a B-36 bomber. You must defend your plane from the fast deadly enemy fighters. Skill and reflexes are required to prevent destruction of your aircraft by an enemy determined to shoot you down. Joystick required.

Battle Through Time

Artworx Software
\$ 19.95 Diskette
for: C64

In the year 2525 AD, time travel is perfected and you are sent through time to assist mankind in various battles from prehistoric ages to the final conflict. Employs full screen graphics with 3 layer scrolling for more realistic movement.



Battle Trek

Touch Technologies
\$ 29.95 Diskette
for: C64

Action game designed especially for 'TREKIES'. The game is a battle between the starship Enterprise and an invading horde of Klingons. The object is to rid the galaxy of Klingons within 50 star dates while achieving as high a score as possible. There are 3 skill levels and a comprehensive user's guide is included.

Beyond Castle Wolfenstein

Muse Software
\$ 34.95 Diskette
for: C64

The underground has smuggled a bomb into the Fuehrer's Berlin bunker and it is your duty to locate the bomb and plant it in the Fuehrer's secret conference room, set the timer, and escape alive.

Boulder Dash

First Star
\$ 29.95 Diskette
for: C64

Utilizes the property of gravity with falling boulders.

Castle Wolfenstein

Muse Software
\$ 29.95 Diskette
for: C64

You've been captured by the Germans during WWII and taken to Castle Wolfenstein for interrogation. A dying cellmate has given you a gun with 10 bullets, your mission (you can't refuse) is to escape the castle with secret war plans.

Cavern Construction Kit

Nufekop
\$ 24.95 Diskette
for: C64

Space cavern game featuring smooth scrolling graphics, edit mode, four separate caverns of different difficulties of terrain.

Cyberworld

Progressive Peripherals
\$ 15.95 Diskette
for: C64

You are a special agent in a universe full of hostile aliens and robots. Over 100 sprites and dozens of sound effects.

Elevator Action

Datasoft
\$ 29.95 Diskette
for: C64

Like the arcade game with all 30 stories.

Game Pack

Nanosec
\$ 34.95 Diskette
for: C64

Two games where you become the president and fight bureaucrats and Russians in White House Blues, or protect the Earth in Alpha Omega Run.

Ghost Chaser

Artworx Software
\$ 19.95 Diskette
for: C64

Features animated, hi-res graphics and multiple game screens in a challenging problem solving format. Explore the rooms of an old manor but watch out for anything that moves.

Great American Road Race

Activision
\$ 29.95 Diskette
for: C64

You are driving at speeds up to 100 mph and you must deal with changing road conditions and of course cops with speed radars.

Lode Runner's Rescue

Synapse
\$ 34.95 Diskette
for: C64

You become Alexandria, Lode Runner's daughter, and you must successfully negotiate 46 mazes on the way to rescue your father from prison. This LR sequel is in 3-D and has a built-in game editor that is easy to use with graphic icons.

London Blitz

Avalon Hill
\$ 25.00 Disk or Tape
for: C64

Enter the perilous world of bomb disposal during WWII. German bombers turned daily existence in London into a nightmare. Be carefull and God save the queen!

Mr. Do!

Datasoft
\$ 29.95 Diskette
for: C64

All the features of the arcade game of the same name.

Pole Position II

Datasoft
\$ 29.95 Diskette
for: C64

Provides edge of your seat Formula 1 racing on four tracks or design your own.

Skyfox

Electronic Arts
\$ 34.95 Diskette
for: C64

Realistic combat flight simulator with on-board flight radar. You can't crash yourself, but you can get blown to bits.

Space Pilot

Artworx Software
\$ 19.95 Diskette
for: C64

Your mission will require you to pilot your craft through time and space battling squadrons of combat aces from the past to the future. Excellent screen scrolling and a responsive controls.

Space Taxi

Muse Software
\$ 29.95 Diskette
for: C64

You are a 23rd century cab driver, presented with 24 different action packed screen predicaments. Exciting music and sound effects and voice synthesis.

Starsweep

JAL Software
\$ 9.95 Diskette
for: C64

2 player nonviolent action game in compiled BASIC. Just sweep your star into the goal and keep your opponent from doing the same.

CONVENTIONAL GAMES



Computerized versions
of traditional games,
or new games in a
more "board-game"
style.

Chess 7.0

Odesta
\$ 69.95 Diskette *****
for: C64

These games just don't play you, they teach you and help you analyze the game and your playing style. You can: set up situations, replay games, switch sides, watch your computer think or get advice. Three keys control all the functions. Levels of play from beginner to master.

(-B.D.)

How Bout a Nice Game of Chess

Odesta
\$ 29.95 Diskette *****
for: C64

Same analytical features through all but the hardest level of Chess 7.0. Includes several on-screen graphically illustrated chapters of instruction from piece identification & openings to development & endgames. This is programming design, execution and documentation at its finest.

(-B.D.) See Gallery, Issue #3

Monty Plays Scrabble

Epyx
\$ 19.95 Diskette *****
for: C64

The process of computerizing scrabble (the all-time best selling word game) has not only left the original intact, it has enhanced it tremendously. 1 or 2 players, colorful board, 12,000 word on-line dictionary and a host of options. Sound effects are just right. Scrabble lovers won't be disappointed.

(-B.D.) See Gallery, Issue #6

Charles Goren: Learning Bridge

CBS Software
\$ 79.95 Diskette *****
for: C64

Learning bridge is at least made easier, if not easy. Charles Goren may be the best known name in bridge. This is the perfect method by which to learn bridge. The manual (which is well done) parallels the programs on disk.

(-B.D.) See Gallery, Issue #5

Renaissance

United Microware Industries
\$ 29.95 Tape *****
for: C64

A smart version of reversi a.k.a. othello. Using the joystick or keyboard you pit yourself against a master. Extensive options allow for skill-level, specific board set-ups, taking back any number of moves, switching sides or getting advice.

(-B.D.) See Gallery, issue #1

Backgammon & Euchre

Hutchcraft
\$ 19.95 Disk or Tape
for: C64

Traditional backgammon - user vs. computer and four-hand partnership euchre for one player.

Blackjack Tutor

Briley Software
\$ 19.95 Tape
for: C64

Learn to hit, stand, double, and split efficiently. Full card graphics with 150 key practice scenarios. It assumes 2 decks (not a card counting scheme).

Bridge 4.0

Artworx Software
\$ 24.95 Disk or Tape
for: C64

Allows you and your computer partner to bid (unlimited) against two computer opponents and play out the hand. The program reviews the bidding, keeps score and tricks taken and will inform you of an illegal bid.

Casino 64

Quantum Leap
\$ 16.00 Diskette
for: C64

Two casino games, Slots and Poker.

Casino Roulette

Powerline Software
\$ 39.95 Disk or Tape
for: C64

Provides nearly all functions of roulette as played in American and European casinos. Displays roulette board, places chips as bets and displays a roulette wheel with ball spinning.

CompuBridge

Artworx Software
\$ 24.95 Diskette
for: C64

For anyone who wants to improve their bridge game or for someone who has never played before. Based on a popular bridge text and consists of 10 tutorials and 8 computer generated quizzes to aide you in the game.

CryptoWord 64

Lawco
\$ 19.95 Diskette
for: C64

Word game for 1 to 4 players to form words with letters that are randomly generated by the computer.

Grand Master Chess

Artworx Software
\$ 24.95 Disk or Tape
for: C64

Has 10 skill levels to choose from and can serve both as an instructive tutor for beginners and a challenging competitor for the serious player. Has many features like number of moves made, computer's & your last move, dual timer, color and more.

In Search Of...

Sher-Tek
\$ 14.85 Diskette
for: C64

Word search game with pre-built games, clock, challenging levels and ability to create your own games.

Pensate

Penguin Software
\$ 29.95 Diskette
for: C64

Original thinking game of evasion.

Sargon III

Hayden
\$ 44.95 Diskette
for: C64

Features 9 levels of play and a library of 68,000 moves. Provides instruction for the novice and brain teasing chess problems for the master.

Strip Poker Data Disk 1-3

Artworx Software
\$ 19.95 Diskette
for: C64

Additional opponents to be used with 'Strip Poker' master disk by Artworx. Each disk provides 2 additional opponents (disks #1 & #2 are female and #3 has male opponents).

Strip Poker

Artworx Software
\$ 29.95 Disk or Tape
for: C64

This unique program has graphics so realistic that we can't illustrate what you see when you win. Comes with Suzi and Melissa, two gorgeous opponents each with their own style of play and the more you win the more they take off. Additional data disks are available with new male and female opponents.

Wurble

Sher-Tek
\$ 14.85 Diskette
for: C64

Computer board game with editor to allow 100s of rule variations.

TEXT ADVENTURES



The diehard adventure game player lets his imagination provide the graphics.

AdventureWriter

CodeWriter
\$ 50.00 Diskette ****
for: C64

Produces classic text adventures with options for using color text and simple sound effects. 38K is available and the finished adventure is in M.L. for fast and unlistable code, and entirely memory resident. Also creates royalty free adventures.

(-M.B.) See review, Issue #5

Deadline

Infocom
\$ 39.95 Diskette ****
for: C64

You are the detective solving a murder in this exciting adventure. Very realistic characters with distinct personalities. Expert level.

(-B.D.)

Robots of Dawn

Epyx
\$ 39.95 Diskette ****
for: C64

All text and no graphics does not make this a dull game at all. While based on the book by Isaac Asimov, the plot changes somewhat for each game. The color coded screen information makes it easy to distinguish the source and the type of information. Thoughtful programming is evident in the responses to player input.

(-B.D.) See review, Issue #5

Starcross

Infocom
\$ 39.95 Diskette ****
for: C64

Text adventure with a science fiction theme in the year 2186, where you are destined to rendezvous with a gargantuan starship from the outer fringes of the galaxy. Expert level.

(-B.D.)

Suspended

Infocom
\$ 39.95 Diskette ****
for: C64

Unique interactive-prose adventure from the company that brought you Zork and Deadline. In this one you command 6 robots each with distinct personalities and various abilities in an effort to avoid world wide catastrophe. Includes a map for tracking your 6 robots. Expert level.

(-B.D.) See Gallery, Issue #1

Bible Trip

Smoky Mountain Software
\$ 19.95 Diskette
for: C64

Adventure game true to New Testament geography. For ages 10 and up.

Brimstone/Essex/Mindwheel

Synapse Software
\$ 39.95 Diskette
for: C64

Three individual text adventures (electronic novels), operates in real time.

CodeWriter Adventures

CodeWriter
\$ 19.99 Diskette
for: C64

Adventure programs of all sorts for 19.99 each. Includes Sherlock Holmes Returns, Times Wrath, Trilogy of Time, Day Before parts 1 & 2, and Fortress Series.

Cut Throats

Infocom
\$ 39.95 Diskette
for: C64

This text adventure places you on an out-of-the-way island populated by some disreputable characters. You're a diver for hire and they hire you to recover some sunken treasure. Standard level.

Cyborg

Sentient Software
\$ 34.95 Diskette
for: C64

Science fiction text adventure with full word input.

Enchanter

Infocom
\$ 39.95 Diskette
for: C64

In the Zorkian tradition, you are a beginning magician whom Fate has chosen to do singlehanded combat with a dark and fierce power. Standard level.

Escape

Infinity Software
\$ 25.00 Diskette
for: C64

Text adventure loaded with suspense and excitement with the added dimension of sound effects and inter-active screens. Your problem solving ability and logic are put to the test, by trying escape from some aliens jailors and their robot sentries, but be careful, the Earth's fate is in your hands.

>>>> Circle Reader Service No. 20 <<<<

Expedition Amazon

Penguin Software
\$:na Diskette
for: C64

Fantasy role playing game into the deep, dark amazon.

Fur Trapper

Briley Software
\$ 12.45 Tape
for: C64

Explore the Rocky Mountains in 1848 with all its danger and lore.

High Seas

Briley Software
\$ 12.45 Tape
for: C64

Sail the Atlantic in 1811 and recover gold, but beware of mutiny!

Infidel

Infocom
\$ 39.95 Diskette
for: C64

Another Infocom text adventure where you are marooned by your followers in the heart of the Egyptian desert. You have come in search of a great lost pyramid and its untold riches. Advanced level.

PDI Adventure Disk

Public Domain
\$ 10.00 Diskette
for: C64

Three adventure programs on one disk. Includes: 'The Original Text Adventure', 'Castle' and 'Lost Gold'.

Planetfall

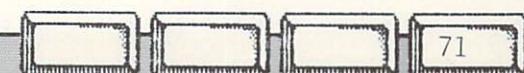
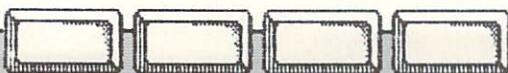
Infocom
\$ 39.95 Diskette
for: C64

You are teleported forward in time to a Stellar Patrol ship, where your rank is Ensign 7th Class (the lowest). The ship explodes and you are jettisoned to a deserted and mysterious world, where you must dare its dangers and try to save it. Standard level.

Sorcerer

Infocom
\$ 39.95 Diskette
for: C64

Another text adventure that poses you with a mystical clue and a magical tour thru the darker side of the Zorkian Empire. Advanced level.



Suspect

Infocom
\$ 39.95 Diskette
for: C64

This time you are the suspect, and Sgt. Duffy wants you! You must solve the murder to clear your name and do it amidst the activity of masked ball in a mansion. Advanced level.

Text Adventure Pack

Nanosec
\$ 34.95 Diskette
for: C64

Two adventures (Hacker and Wizard's Wand) in machine lang., enter full sentences, load and save games.

Thriller Series 2

CodeWriter
\$ 19.99 Diskette
for: C64

Three adventure programs on one disk, includes Shipwrecked, Frankenstein's Legacy, and The Son of Ali Baba.

Thriller Series

CodeWriter
\$ 19.99 Diskette
for: C64

Three adventure programs on one disk, includes Night of the Walking Dead, Perils of Darkest Africa, and Revenge of the Moon Goddess.

Witness

Infocom
\$ 39.95 Diskette
for: C64

Spine-tingler of a blackmail case that turns into murder before your eyes, and anyone from the knockout heiress to the poker-faced Oriental butler could be the killer. Standard level.

Zork I, II, III

Infocom
\$ 39.95 Diskette
for: C64

The Great Underground Empire confronts you with perils and predicaments ranging from the mystical to the macabre, as you strive to discover the Treasures of Zork and escape with them and your life. Zork I is of standard level and II & III are advanced levels.

GRAPHIC ADVENTURES

Illustrated adventure adds color to the plot, and especially aids younger players.

Exodus: Ultima III

Origin Systems
\$ 59.95 Diskette ****
for: C64

As in chess, the game pieces in this are better at some things and poorer at others. You assemble 4 adventures and then roam a strange, enchanted land. Documentation is mysterious too, providing only bare essentials. You can save games in progress to disk. (-B.D.) See review, Issue #5

Countdown to Shutdown

Activision
\$:na Diskette ****+
for: C64

One of the better offerings from Activision since 'GhostBusters'. Even before you figure out the object of this game, you will enjoy the delightful 3-D graphics effects, well-done animation (with shadows), sound effects, detailed information displays, and fluid gameplay. The object: your androids must prevent a nuclear meltdown.

(-B.D.) See Gallery, Issue #7

Adventure Creator

Spinnaker
\$:na Diskette ****
for: C64

A marvelous graphics adventure creation program, that creates a dungeon for children to explore and populates it with strange creatures and wonderful treasures, or lets them create their own. The quests are challenging and non-violent. Another solid winner from Spinnaker.

(-M.B.) See review, Issue #6

Curse of Ra

Epyx
\$ 19.95 Disk or Tape ****
for: C64
Expansion module for 'Temple of Apshai'.
(-B.D.)

Murder by the Dozen

CBS Software
\$ 39.95 Diskette ****
for: C64

An engrossing collection of detective adventures for one to four players. Assuming your favorite sleuth personas, you will search for clues, question suspects, draw your conclusions and finally announce your solution. Includes clue book and answer book.

(-B.D.) See Gallery, Issue #6

Murder on the Zinderneut

Electronic Arts
\$ 39.95 Diskette ****
for: C64

Like starring in a detective novel instead of just reading it. There is a different case to solve each time, and you conduct the investigation your way. 16 passengers and 16 cabin rooms with furnishings.

(-B.D.) See Gallery, Issue #5

Serpent's Star

Broderbund
\$:na Diskette ****
for: C64

This hybrid adventure game is a noticeable improvement over 'Mask of the Sun'. Toggle fast or slow travel between locations. Screens are colorful, the action smooth, the parser forgiving and intelligent, the storyline is interesting, the puzzles' just hard enough and refreshing humor.

(-B.D.) See Gallery, Issue #7

Seven Cities of Gold

Electronic Arts
\$ 39.95 Diskette ****
for: C64

An adventure game of discovering the new world in the late 1400's. Carefully balance your resources between the number of ships, men, supplies and valuables to trade or give the natives. You'll like this one if you like exploring and can negotiate with unpredictable natives.

(-B.D.) See Gallery, Issue #5

Sword of Fargoal

Epyx
\$ 29.95 Disk or Tape ****
for: C64

The junior version of 'Temple of Apshai', with a simpler command interface for younger or less patient players.

(-B.D.) See Gallery, Issue #1

Telengard

Avalon Hill
\$ 24.95 Diskette ****
for: C64

A classic graphic underground adventure featuring a reputed 50,000 rooms to explore. A full compliment of monsters, characters, weapons, and spells inhabits the world of Telengard. Not as imposing, varied, or impressive as others like Ultima, but inexpensive and colorful. Good manual & reference card and demo mode.

(-M.B.) See review, Issue #6

Temple of Apshai

Epyx
\$ 39.95 Diskette ****
for: C64

Excellent rendition of the award-winning graphic adventure. Makes good use of the 64's hi-res, sound, and sprites. Surpassing Apple and Atari versions. We liked the elven text fonts and sprite animation. Additional modules allow extended play.

(-B.D.) See Gallery, Issue #1

The Institute

Screenplay
\$ 29.95 Diskette ****
for: C64

You've been committed against your will, now if you can just talk, find or claw your way out. A few suggestions from the manual will get you started, but some imagination is needed to get beyond the first hallway.

(-B.D.) See Gallery, Issue #5

Upper Reaches of Apshai

Epyx
\$ 19.95 Disk or Tape ****
for: C64

Expansion module for 'Temple of Apshai'.
(-B.D.)

Alcazar: Forgotten Fortress

Activision
\$:na Diskette ****-
for: C64

Interesting graphic variation of the ubiquitous dungeon adventure. You must collect and properly use the right objects and weapons in order to overcome your various adversaries and complete your quest. On-screen map and large over-view map.

(-B.D.) See Gallery, Issue #7

Mask of the Sun

Broderbund
\$ 39.95 Diskette ****-
for: C64

Jump into your jeep with your faithful companion, Raoul, and you're off to the jungle to search for treasures amongst the ancient ruins. This one stands out mostly for its graphics, which includes well drawn static and animation screens. Children will especially like this for its visuals. Easy to get into and the riddles are just hard enough to challenge without frustration.

(-B.D.) See Gallery, Issue #5

Standing Stones, The

Electronic Arts
\$ 39.95 Diskette ****+
for: C64

Not up to EA's usual quality, the screens consist of the standard hallway labyrinth drawn with straight, converging lines and creatures drawn with character graphics. Looks like most of the effort went into packaging, the title screen and translations into Old English ('Canst thou toggles?').

(-B.D.) See Gallery, Issue #5

Caveman

Zinta Micro Systems
\$:na Diskette ***+
for: C64

This prehistoric adventure game has fine graphics screens, but as an adventure game it's awful. Every response you type in causes a lengthy disk-access (and there are 3 disks with both sides filled!), maybe a hard disk would make this more playable.

(-B.D.) See Gallery, Issue #6

Dolphins Rune

MindScape
\$ 29.95 Diskette
for: C64

Takes you into a mystical colorful underwater world with the object to find hieroglyphics hidden in the sea, that may be linked together creating a poem that reveals the secret to ancient dolphin lore.

Gateway to Apshai

Epyx
\$ 29.95 ROM
for: C64
Cartridge sequel to 'Temple of Apshai'.

Goonies

Datasoft
\$ 29.95 Diskette
for: C64

Based on the hit Spielberg movie. Lets you relive the thrills and dangers of the big screen as the Goonies kids go after the pirate treasure while trying to unscramble the tricks of each screen.

Gothmog's Lair

Progressive Peripherals
\$ 19.95 Disk or Tape
for: C64

Real time adventure, where you try to recover 13 treasures. Includes old english script, manual and map.

Mansion! /Museum! /Pentagon!

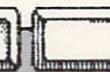
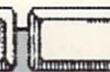
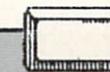
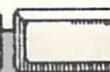
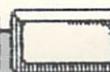
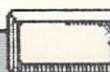
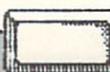
Briley Software
\$ 12.45 Tape
for: C64

Three detective programs available separately, each with different locations, but with similar plots, where you must determine 'who did it'.

Maxwell Manor

Avalon Hill
\$ 28.00 Disk or Tape
for: C64

A murder mystery in a haunted mansion that you must solve. 1,000 play variations.



Ninja: Orb of Celestial Har.

Origin Systems
\$ 59.95 Diskette
for: C64

Fantasy role playing game set in mythical oriental land. Travel through the elemental planes of earth, water, air, and fire, in search of the warlord. Hand to hand Karate style fighting and sword play.

Quest

Penguin Software
\$ 19.95 Diskette
for: C64

A quest to rid the kingdom of a vengeful dragon.

Swiss Family/Below the Root

Spinnaker
\$ 44.95 Diskette
for: C64

Two graphic adventure based on the popular books, respectively.

Sword of Kadash

Penguin Software
\$ 19.95 Diskette
for: C64

Explore a dragon's castle to find the magical Sword of Kadash.

Transylvania

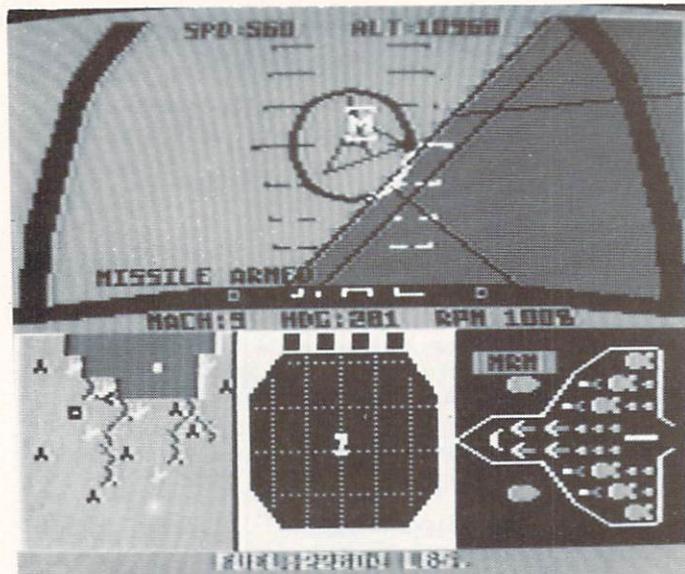
Penguin Software
\$ 19.95 Diskette
for: C64

Search all of Transylvania to find and rescue the princess.

Xyphus

Penguin Software
\$ 34.95 Diskette
for: C64

Fantasy role playing game with 6 scenarios and four player independent movement.



F-15 Strike Eagle

MicroProse Software
\$ 34.95 Diskette
for: C64

A captivating game experience flying a fighter bomber. Not as finicky and crash prone as some flight simulators (this plane is considered landed by just coming close to your base). The real action and pleasure of this game is combat flying, bombing, and dog fighting. The cockpit is detailed and the action is convincing. Four skill levels.

(-B.D.) See Gallery, Issue #5

Flight Simulator II

Sublogic
\$ 49.95 Diskette
for: C64

Hi-res real-time color animated flight simulator with practice takeoffs, landings & aerobatics in your Piper 181 Cherokee Archer or fly into WWII dogfight. Includes 80 airports (NY, Chicago, Seattle & LA), adjustable weather conditions, complete instrumentation and documentation.

(-B.D.) See review, Issue #4

Summer Games II

Epyx
\$ 39.95 Diskette
for: C64

The sequel to SG I with 8 new events: cycling, fencing, kayaking, triple jumping, rowing, high jumping, javelin throwing and equestrian. Well-done with exceptional realism as well as Epyx's usual top-notch input and control routines. Am looking forward to the 3rd sequel: Winter Games!

(-B.D.)

Dragons of Pern

Epyx
\$ 39.95 Diskette
for: C64

Based on the popular Anne McCaffrey fantasy novels. You are one of the weyr leaders, riding your dragon, fighting the deadly 'thread' and maneuvering thru the delicate politics of the lord holders. Multiple screens and varying activities keep you going.

(-B.D.) See Gallery, Issue #3

STRATEGY AND SIMULATION

Fly a plane or fight a war! This category squeezes the world, real and imaginary, into your computer.

Combat Leader

Strategic Simulations
\$ 39.95 Diskette
for: C64

Scrolling hi-res battlefield shows trees, rocks, topography & enemy armor. Command your 5 tanks together or individually, deploy foot troops, send commands via radio (on-screen command line). Design your own scenarios, simple or very elaborate.

(-B.D.) See Gallery, Issue #3

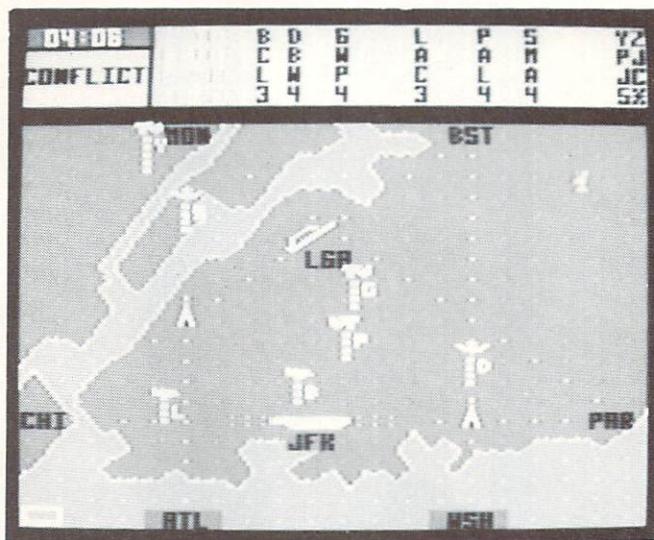


Crusade in Europe

MicroProse Software
\$ 34.95 Diskette ********
for: C64

From D-day to the Battle of the Bulge, you will have the chance to replay the hands dealt by history in this real-time strategic war-game simulation. A large scrolling map shows terrain and troops with your choice of symbolic or pictorial game pieces. Very easy to start playing, but amply complex for crustier war-gamers. Sound effects and graphics are just right.

(-B.D.) See Gallery, Issue #7



Kennedy Approach

MicroProse Software
\$ 34.95 Diskette ********
for: C64 C128

Best air traffic controller as of July 1985. Sports several advanced and unique features that help make it work (good quality speech synthesis and visual indication of altitude for planes, gives you 3-d visual information on a 2-d game grid). If you aren't getting enough tension in your life, this should help.

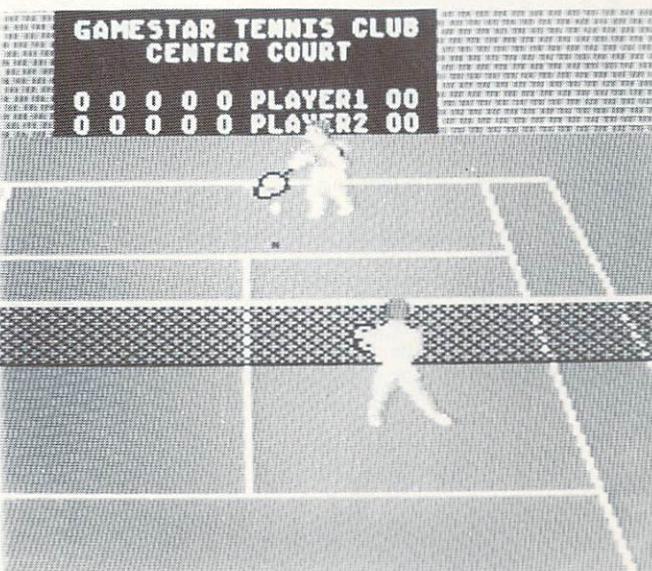
(-B.D.) See Gallery, Issue #7

International Soccer

Commodore
\$ 24.95 ROM ********
for: C64

This is the best game Commodore has come out with to date (spring 1985). The most outstanding thing is the smooth and natural way that control passes from player to player without the conscious effort and awkward joystick manipulation required by most team sport simulations. Fast action, great graphics, 9 skill levels, and a joy to play.

(-B.D.) See Gallery, Issue #6



On-Court Tennis

Gamestar
\$ 29.95 Diskette ********
for: C64

Like their other sports simulations, Gamestar's tennis game features good animation with convincing 3-dimensional effect, including shadowing and foreshortening. 1 or 2 players, choice of surfaces (clay, grass, etc.), choice of character (Bjorn, Jimmy, etc.) and a surprising amount of joystick control (drop shots, etc.). This captures much of the real flavor of real tennis.

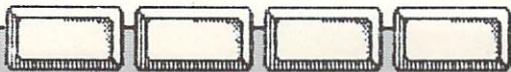
(-B.D.) See Gallery, Issue #6

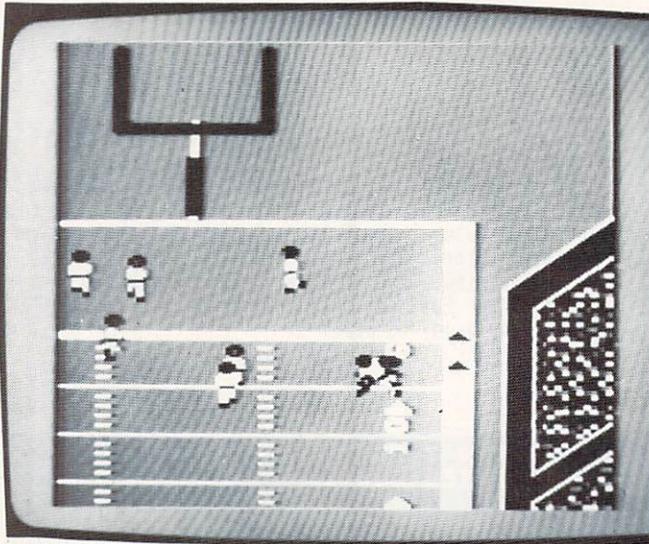
One on One

Epyx
\$ 39.95 Diskette ********
for: C64

1 or 2 players may switch personalities with Dr. J or Larry Bird. All elements of the game have been included through excellent programming: dribbling, shooting, rebounding, stealing, blocking, 180-degree spins & slam dunks (easy on the backboard...its breakable). Referee calls the fouls, janitor sweeps up broken backboards, and instant replays on good moves.

(-B.D.) See Gallery, Issue #5



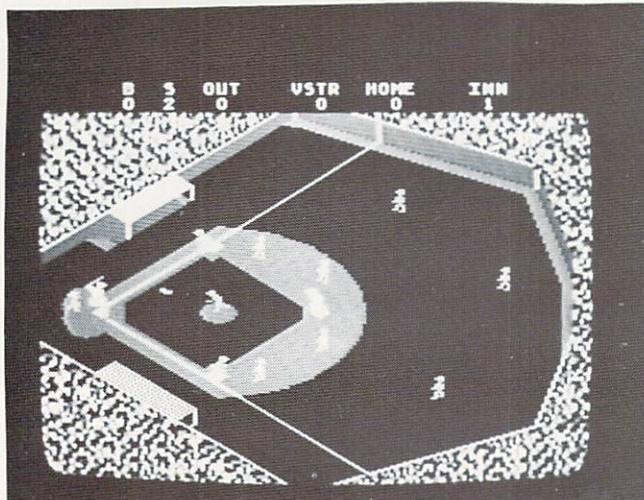


On-Field Football

Gamestar
\$ 29.95 Diskette ****
for: C64

Rounds out the Gamestar series of animated action sports titles. While this version of the great Sunday obsession sends only 6 warriors per team into the skirmish, the action is well-done. Scrolling allows full field play, for 1 or 2 players.

(-B.D.) See Gallery, Issue #7



Star League Baseball

Gamestar
\$ 29.95 Diskette ****
for: C64

The players are small and somewhat sketchy, yet very realistic in their motions. Wind ups, pitches, steal, bunt etc. Joystick control sequences are natural to learn, on screen score, count & inning. Batting practice options help your batting average. The sound is well done also.

(-B.D.) See Gallery, Issue #5

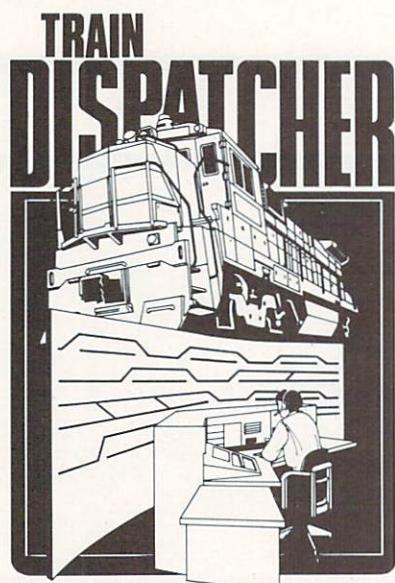


Sonar Search

Signal Computer Consultants
\$ 30.00 Diskette ****
for: C64

A good sub game is hard to create and this one is good! As the commander of a trio of destroyers, you get that eerie feeling when you know they are out there, but the sonar signal is not returning. Separate screen for each ship and more than one sub to find, this is the battle of the bilge!

(-B.D.) See Gallery, Issue #5



Train Dispatcher

Signal Computer Consultants
\$ 25.00 Diskette ****
for: C64

No flashy graphics, just an accurate simulation of a day in the life of a train dispatcher. You contend with train crew schedules, track maintenance, and transmit train orders to try and keep the trains rolling over 150 miles of track without a hitch for your full 8 hour shift.

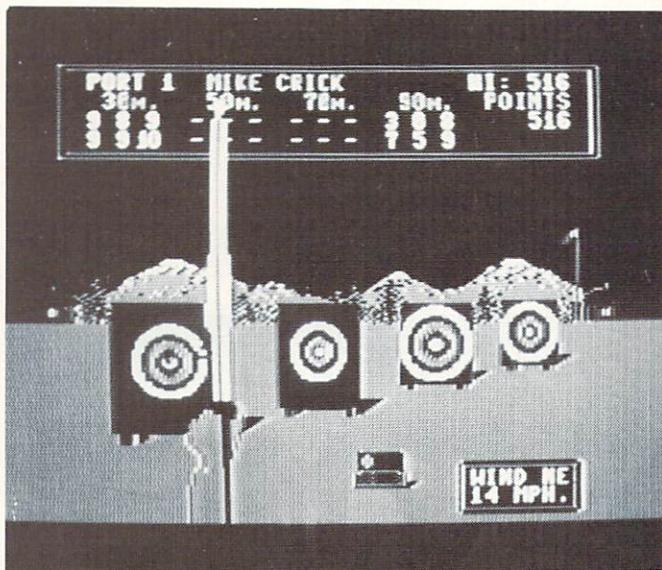
(-M.B.) See review, Issue #6

Summer Games I

Epyx
\$ 39.95 Diskette ****
for: C64

The element of strategy is incorporated into 4 of the 8 events in a limited way: energy meter paces runner, harder gymnastic routines earn high points, etc. There is some wiggling and joy-button tapping used to propel athletes. Includes: running, swimming, diving, gymnastics and skeet shooting.

(-B.D.) See Gallery, Issue #5



'S' Games

Michael Crick
\$ 14.95 Diskette ****-
for: C64

Previously published by HES as Hes Games. The track events (100m dash, long jump, hurdles) require a supple wrist. You can race others or your own 'saved' performance. Archery, with cross winds and four target distances is especially good. Diving is a challenge from belly-flops to triple somersaults. Even features instant replays!

(-Staff) See Gallery, Issue #5

World's Greatest Baseball

Epyx
\$ 34.95 Diskette ****-
for: C64

The statistical game plays any of 26 classic teams (through 1983) against another, where you are the manager, and player performance is based on actual records. Playing is a let down, player motions and ball movement is unrealistic and imprecise. Balls and strikes are not apparent to the viewer.

(-B.D.) See Gallery, Issue #5

Legionnaire

Avalon Hill
\$ 30.00 Disk or Tape ****+
for: C64

A strategic war-game simulation which puts you out in the field as Julius Caesar with nothing but blood-thirsty barbarians from horizon to horizon. The sound effects of tramping boots may make you chuckle. Pretty good game controls and scrolling battle field.

(-B.D.) See Gallery, Issue #6



Solo Flight

MicroProse Software
\$ 34.95 Diskette ****+
for: C64

Great looking real-time light airplane simulation. 3-D terrain graphics, multiple airports, varying conditions, full instrumentation, air-mail game, VFR & IFR flying.

(-B.D.) See review, Issue #4

M.U.L.E.

Electronic Arts
\$ 39.95 Diskette ****+
for: C64

This is a charming game with something for everyone (for 0 to 4 players). It's sort of an off-planet monopoly game with plenty of horse-trading, back-stabbing, lucky breaks, disasters, and just enough comic relief.

(-B.D.) See Gallery, Issue #2

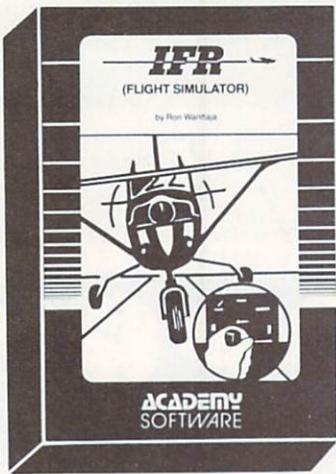
Pool-64

Abacus Software
\$ 34.95 Diskette ****+
for: C64

Pretty nice pool simulation, aims & shoots with keyboard and realistic physics.

(-B.D.) See Gallery, Issue #3





IFR (Flight Simulator)

Academy Software
\$ 29.95 Disk or Tape ***
for: C64

This flight simulator, while lacking a terrain view, is detailed functionally with apparently accurate instrumentation and responses (I'm no pilot so how do know?). You get rated for your performance landing at various airports (make sure the landing gear is down!).

(-B.D.) See Gallery, Issue #3



Acrojet

MicroProse Software
\$ 34.95 Diskette
for: C64

Allows those pilots who have soloed in Solo Flight to now pilot their own personal jet, the BD5-J. You can then participate in a Decathlon of Sport Aviation events, including spot landings, ribbon cuts, acrobatics, and more. High performance flying, including rolls, loops, Immelmanns all in 3-D.

Alice in Videoland

Artworx Software
\$ 19.95 Diskette
for: C64

Computer adaptation that uses the full graphics and animation of the C64. Player guides Alice through the many encounters she will have while exploring Videoland. Includes all the favorite characters.

Alter Ego

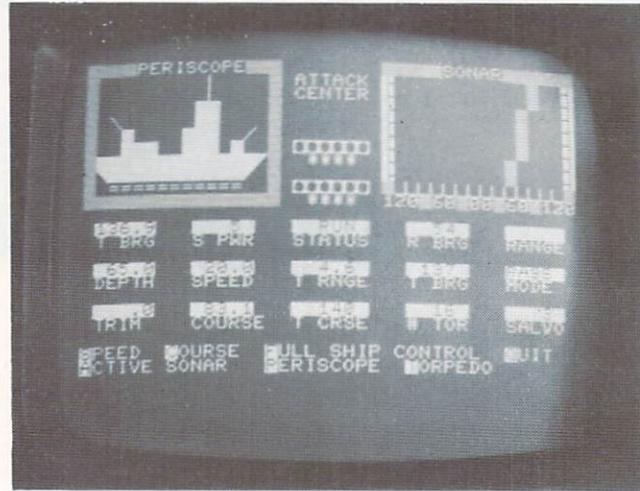
Activision
\$ 19.95 Diskette
for: C64

Lets you create different personalities and alter their emotions, physical appearance and other situations that effect them.

Alternate Reality

Datasoft
\$ 39.95 Diskette
for: C64

Role playing adventure game, as you try to survive in an alien environment.



CCI Subwar 64

Clockwork Computers
\$ 19.95 Disk or Tape
for: C64

Classic simulation that puts you in complete control of a modern nuclear powered submarine. Your mission is to sail from port, dive, attack, sink surface ships, survive attacks, use sonar and ballast, all in real time. Training program and detailed operators guide included.

Dam

Greenwood Software
\$ 20.22 Disk or Tape
for: C64

Real time simulation of the operation of a hydro-electric dam.

Dreadnoughts

Avalon Hill
\$ 30.00 Diskette
for: C64

A wargame in the North Atlantic Ocean that recreates major naval action during WWII with a roster of 44 British, German, French, and American ships that sailed the Atlantic during that time.

Fireworks Celebration Kit

Activision
\$ 19.95 Diskette
for: C64

Lets you create fireworks displays with music and special messages. Turn them into computer greeting cards.

Flight Path 737

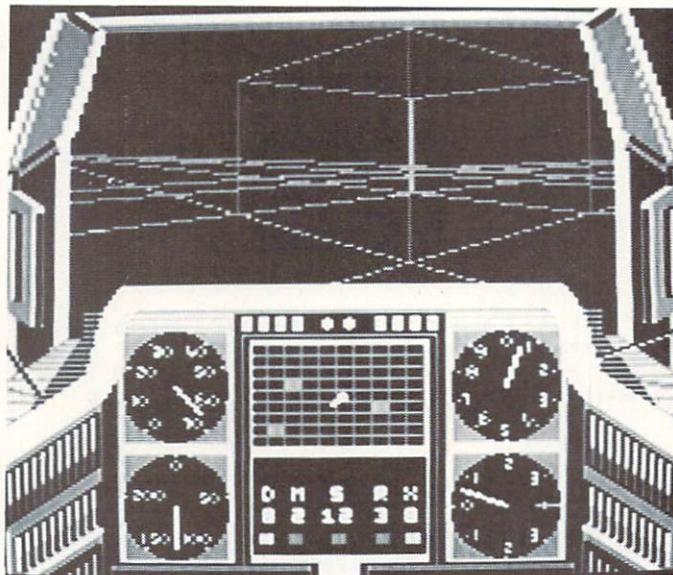
Artworx Software
\$ 19.95 Diskette
for: C64

Choose any of 6 different levels from novice to test pilot and receive your flight instructions. You control throttle, flaps, and landing gear as you take off.

Gulf Strike

Avalon Hill
\$ 30.00 Diskette
for: C64

A wargame in the Persian Gulf. Pits the US and its European allies and Iran (???) against the Soviet Union and Iraq for the invasion of Afghanistan.



Gunship

MicroProse Software
\$ 34.95 Diskette
for: C64 C128

Simulator of the new AH-64 Apache attack helicopter and features multiple weapon, navigational system, outstanding joystick flying system and 3-D graphics.

Hellcat Ace

MicroProse Software
\$ 29.95 Diskette
for: C64

3-d combat flying simulation.

International Hockey

Artworx Software
\$ 24.95 Diskette
for: C64

Sequel to 'Slapshot Hockey' with speech synthesis, 1 or 2 player action, and 3 levels of play.

Jet Combat Simulator

Epyx
\$ 29.95 Diskette
for: C64

Highly realistic simulator recreates actual flight situations that arise in piloting a F15 jet fighter, such as cross-wind turbulence and blind landings. Four separate options enable you to progress from landing practice to air-to-air combat.

Locomotive Switcher

Signal Computer Consultants
\$ 30.00 Diskette
for: C64

Uses high resolution graphics and sophisticated sounds to simulate railroad switching operations in an industrial area. There are 2 modes of operation, flat yard and hump. High scores can be achieved in both modes by minimizing moves and damage, and maximizing efficiency.

Microbroker

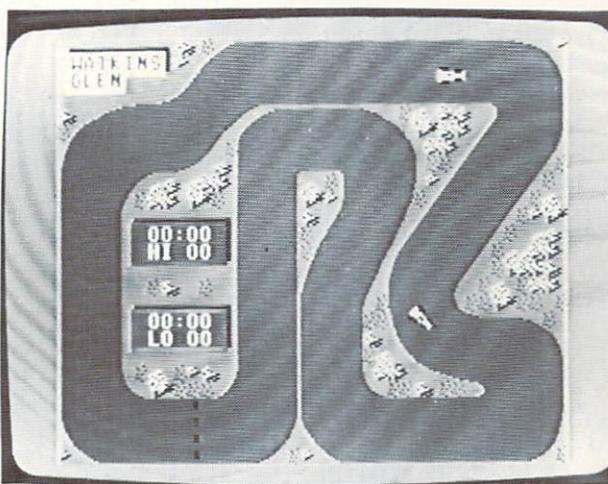
Cardinal Software
\$ 34.95 Diskette
for: C64

Stock market simulation, which supports up to 6 investors. Teaches players to invest based on their net worth and credit rating. Help screens for: news release, financial consultant, stock record displays and the investor's portfolio.

NATO Commander

MicroProse Software
\$ 34.95 Disk or Tape
for: C64

On-screen scrolling European war map, real time, five scenarios & news service updates. You command the infantry, mechanized armor, and helicopters.



On-Track Racing

Gamestar
\$ 29.95 Diskette
for: C64

Head to head competition against a champion computer racer or a friend from start to finish. Covers 10 world famous raceways (pavements to dirt tracks) and two racing modes (best time or most distance).



Ringside Seat

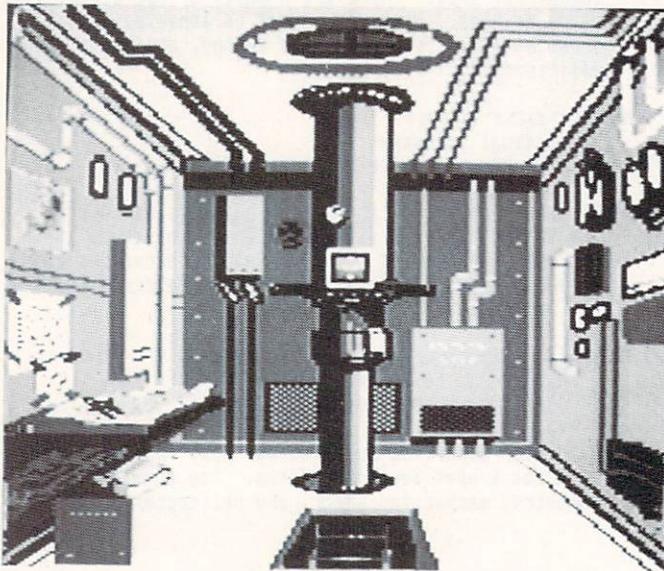
Strategic Simulations
\$ 39.95 Diskette
for: C64

Semi-animated boxing simulation, arrange the match-ups of the century and see who would have won.

Run for the Money

Scarborough Systems
\$ 39.95 Diskette
for: C64

Action packed different game of strategy for 2 players, based on economic models by an MIT professor.



Silent Service

MicroProse Software
\$ 34.95 Diskette
for: C64

A submarine simulation of WWII submarine combat in the Pacific. Features multi-sub locations including engine room, conning tower and ship's bridge.

Six Gun Shootout

Strategic Simulations
\$ 39.95 Diskette
for: C64

Old west simulation with 10 scenarios of either fiction or historically accurate, and 18 weapons for man to man combat.

Slap Shot Hockey

Artworx Software
\$ 19.95 Diskette
for: C64

Choose your team from the 6 countries in the 1984 Canada Cup Series and get set for the action. Features life-like voice, true 2 player control, real action passing, defense/offense strategies and body checking.

* * * * *
PLAYER 1
| ROCKIN JO BARLOW |

	IMAGE: HOT TEMPER
	ATTITUDE: UNCERTAIN
	STAMINA: GOOD
	AGILITY: LIGHTNING
	STRENGTH: FEEBLE
	ENDURANCE: UNPREDICT.
	BEST PUNCH: BODY SHOT
	RECOVERY: SPEEDY
BOXING STYLE SLUGGER	
RECORD	
WINS 00	DRAWS 00
KO'S 00	LOST 00
RANKING 01	
EARNINGS \$00	

* CONTINUE *

Star Rank Boxing

Gamestar
\$ 29.95 Diskette
for: C64

Super Bowl Sunday

Avalon Hill
\$ 35.00 Diskette
for: C64

A realistic football simulation which puts you out in control of everything in 10 AFC/NFC match ups.

Wingman / Mig Alley Ace

MicroProse Software
\$ 34.95 Diskette
for: C64

Player vs player, head to head, split screen 3-D combat flying simulations.

World's Greatest Football

Epyx
\$ 35.00 Diskette
for: C64

Once the ball is snapped, the player takes control of offense or defense in fast-paced, head-to-head action. The play book can hold up to 120 plays and allows players to customize existing plays. Views including side-line, bird's eye or close-up.

EDUCATIONAL GAMES



Learning made fun!
Math games, Map games,
quizzes and more.
Students (hopefully)
Pay closer attention.

Chipwits

Epyx
\$ 39.95 Diskette ****
for: C64

A fantastic program that is as educational as it is entertaining. Using the increasingly popular pull-down menus, you choose one of 16 Chipwit robots and program it to solve one of the 8 varying-difficulty adventures. Programming is done with pictures and can be rather elaborate.

(-B.D.) See Gallery, Issue #7

The Factory

Sunburst Communications
\$ 44.95 Diskette ****
for: C64

This is a wonderful edu-game which stimulates problem-solving, visualization, and spatial comprehension. Players must use a variety of machines to create simple to complex parts.

(-B.D.) See Gallery, Issue #3

Little Red Riding Hood

Playground Software
\$ 29.95 Disk or Tape ****
for: C64

One of a series of bedtime stories. Requires the 'Edumate Light Pen'. Features software-synthesized voice of Freddy the Frog (aka SAM the software animated mouth).

(-B.D.) See Gallery, Issue #3

Quink

CBS Software
\$ 39.95 Diskette ****
for: C64

Each screen presents the player with 8 random places, names, or things: some items will belong together by some associating element, while the rest will be totally unrelated. Sort it out as fast as you can for maximum points.

(-B.D.) See Gallery, Issue #7

The Trivia Arcade

Screenplay
\$ 34.95 Diskette ****
for: C64

3500 questions in 5 categories (additional question pack available for \$9.95). Interesting arcade screen idea for choosing question categories. Up to 4 players.

(-B.D.)

Up for Grabs

Spinnaker
\$ 34.95 Diskette ****
for: C64

Fun crossword-type puzzle for up to four players of various ages and skills with joysticks or paddles. Good graphics.

(-B.D.)

Pathwords

CBS Software
\$ 39.95 Diskette ****+
for: C64

An interesting variation to those word games you see on paper, where you have to find the hidden words from a solid mass of letters, and draw a circle around them. But this version allows for any continuous path of letters (twists & turns allowed).

(-B.D.) See Gallery, Issue #6

Perplexity

Daybreak Software
\$ 29.95 Diskette ****+
for: C64

A series of classic thinking puzzles. The best of which is 'Electro-connection' which has you trying to route wiring across the screen without crossing over yourself (like circuit design).

(-B.D.) See Gallery, Issue #3

Flower Power

Software
\$ 19.95 Diskette ***
for: C64

While working on your various areas of math, you will be growing a colorful garden of flowers, while wrong answers grow weeds. Works with addition, subtraction, multiplication and division.

(-B.D.) See Gallery, Issue #3

Fraction Fever

Spinnaker
\$ 34.95 Diskette ***
for: C64

We're not convinced that this program helps kids learn fractions, (the visual scheme is fairly confusing in terms numbers), but they will probably have fun bouncing along on their pogo-sticks, riding up elevators, and falling thru the gaps. Edu-game...ok, but not one of Spinnaker's best.

(-B.D.) See Gallery, Issue #3

The Pond

Sunburst Communications
\$ 39.95 Diskette ***-
for: C64

After titles like The Factory and Missing Links, this ones a disappointment. The Pond is a tedious problem solving exercise wherein the player must find a pattern that will enable a frog to cross a pond on a pathway of lilly-pads.

(-B.D.) See Gallery, Issue #7

A.B. Choo Choo

Boston Educational
\$ 24.95 Diskette
for: C64

Students are drilled in letter recognition, alphabet sequencing, and sight word recognition in this 3 part program featuring oversized letters in a train/truck theme. Preschool to K.

Bank Street Story Book

MindScape
\$ 39.95 Diskette
for: C64

Children can create dynamic multiple-paged stories with animation and sequencing. Stories may be saved to disk or printed out to make books.

Bible Fun 1

Smoky Mountain Software
\$ 49.95 Diskette
for: C64

Seven complete, unabridged programs of Bible knowledge. For ages 8 and up.

Build a Book about You

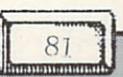
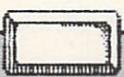
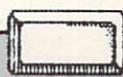
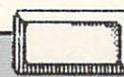
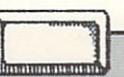
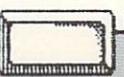
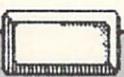
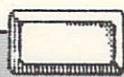
Scarborough Systems
\$ 39.95 Diskette
for: C64

Create a personalized childrens book.

Castle Clobber

MindScape
\$ 24.95 Diskette
for: C64

As children pilot 'Tonk' around the castle, they strengthen their logic, critical thinking and map reading skills. Colorful graphics, lively animation and original music. For ages 4 to 18.



Cave of the Word Wizard

Timeworks
\$ 24.95 Diskette
for: C64

Develops spelling skills by combining arcade action and speech in this spelling game with 500 spoken words on 10 skill levels and 4 game levels.

Challenge Math

Sunburst Communications
\$ 44.95 Diskette
for: C64

An alien space intruder, a dinosaur and a mysterious mansion entice students into practicing basic arithmetic operations.

Choice of Hercules

SocrateSystems
\$ 19.95 Disk or Tape
for: C64 C128

Multiple choice screen game with color, sound, help, and score keeping. Sample files are included with an editor to construct your own. False answers are made up by the teacher or computer, and randomized for each game. Each SocrateSystems programs can be purchased separately, but still use the same files.

CodeWriter Specialty DBMS's

CodeWriter
\$ 19.99 Diskette
for: C64

Specialized data base managers of all sorts, for 19.99 each. Includes BillBusters, Coin Collector, Scout Records, Appointment Planner/Weekly Schedule, Auto Maintenance, Mailing List, School Report Card System, Album Library, Book Library, and Real Estate Records.

Crossword Magic

MindScape
\$ 49.95 Diskette
for: C64

Create your own crossword puzzles including clues. A unique way to study any language or subject.

Donald Duck's Playground

Sierra On-Line
\$ 34.95 Diskette
for: C64

Teaches children ages 7 to 11 about money: counting cash, making change, paying for purchases, keeping track of their assets and most importantly teaches them the relationship among work, wages and possessions.

Dr. Suess Fix-up the Mix-up

CBS Software
\$ 29.95 Diskette
for: C64

Electronic jigsaw puzzle that features favorite Dr. Suess storybook characters. Increases your child's problem solving, concentration, pattern recognition and memory skills. For ages 4 to 10.

Educational Game Pack

Nanosec
\$ 34.95 Diskette
for: C64

Two edu-games for understanding weather (Tornado Tim) and learning math (Math Farm).

Fruit Tree / Gumball

Boston Educational
\$ 24.95 Disk or Tape
for: C64

Two games are contained within this program to drill counting and simple addition and subtraction. For grades preschool to second grade.

Getting Ready to Read & Add

Sunburst Communications
\$ 44.95 Diskette
for: C64

Sound, color and animation help young students identify and match shapes, upper/lower case letters and numbers.

Ginger the Cat

Cardinal Software
\$ 34.95 Diskette
for: C64

Music, bright colors and movement create a happy environment in which your children learn basic skills in: colors, letters, numbers, shapes and simple arithmetic. For ages from 2 to 6.

Halley Project

MindScape
\$ 39.95 Diskette
for: C64

Players must successfully complete a series of missions, navigating by the stars, in this authentic real-time simulation of the solar system. Qualifiers may participate in a special secret mission.

Hemlock

SocrateSystems
\$ 19.95 Disk or Tape
for: C64 C128

Hangman type screen game with an important difference: something beyond the alphabet is learned. A question is displayed and the player has to guess the answer, with the number of tries set in advance. It includes sound, color, graphics, score recording, and uses files made up for any SocrateSystems program. For elementary thru high school.

Incredible Laboratory

Sunburst Communications
\$ 44.95 Diskette
for: C64

Students learn problem solving skills as they mix 'crazy chemicals' to produce colorfully vivid monsters.

Just Imagine

Commodore
\$ 19.95 Diskette
for: C64

Unique educational program that lets your child design imaginative stories increasing their word to image association, creative writing and simple word processing. Includes 9 background scenes, 25 animated characters, and 48 stationary objects.

Keyboard Cadet

MindScape
\$ 39.95 Diskette
for: C64

Trains users to type on the computer keyboard, excellent graphics and ease of use make it appropriate for users age 8 and up.

Kid Pro Quo

SoftSync
\$ 29.95 Diskette
for: C64 C128

Kids can write text, draw, paint and animate pictures and even compose music. There's also a built-in picture and music libraries. Great for picture books, comic strips, illustrated reports, cartoons, newspapers. Offers a child a creative environment that encourages writing, drawing, music, computer skills and lots of fun.

Leaps and Bounds

Muse Software
\$ 39.95 Diskette
for: C64

Develops reading skills, basic letter/word recognition, numbers and counting skills. Ages 4 to 8, reading not required, because pictures guide the child through the program.

Long Division

Infinity Software
\$ 25.00 Diskette
for: C64

A program that teaches long division fundamentals and monitors student performance with positive feedback. A random number generator assures varied problems. 3 skill levels.

M-ss-ng L-nks

Sunburst Communications
\$ 44.95 Diskette
for: C64

Passages from nine classics of childrens literature and solutions depend on the student's educated guess.

Management Decision

Infinity Software
\$ 25.00 Diskette
for: C64

Educational simulation that tests the player's ability to develop and operate a new company. Over the next 18 months, you will be the president and in the position to guide your company to profit and success or lose your shirt. Regardless of the outcome, you will come to understand the relationships and trade-offs to make a profit.

MasterType New & Improved

Scarborough Systems
\$ 39.95 Disk or ROM
for: C64

Learn to type or get blown to bits in this typing instruction edu-game.
(-Staff)

Math Action Games Series

MindScape
\$ 19.95 Diskette
for: C64

Teaches children in grades K-3 number and counting, teaches multiplication and division for grades 3-6 and for grades 6-8 it teaches percentages, decimals and fractions.

Math Bowl

Micrograms
\$ 15.95 Diskette
for: C64

Grades 4 - 5. Edu-game for mathematics with a bowling scenario.

Math Double Drill

Cardinal Software
\$ 34.95 Diskette
for: C64

Colorful animation and snappy tunes turn learning math facts into an exciting challenge. Contains 2 games both of which can be set for the individual's ability. Covers addition, subtraction, multiplication and division. Includes: timer, tutor mode, switchable on/off sound for wrong answers. Grades K-6.

Memory Castle

Sunburst Communications
\$ 44.95 Diskette
for: C64

Gives students practice in remembering and following directions.

Monkeymath

Artworx Software
\$ 24.95 Disk or Tape
for: C64

Graphics and animation couples the fun and excitement of an arcade game with the opportunity to learn. Children ages 6-12 can practice number placement, addition, subtraction, multiplication, and division. Three levels of difficulty.

Mr. Pixels Cartoon Kit

MindScape
\$ 29.95 Diskette
for: C64

Allows children to explore their creativity by selecting or building cartoon characters and then combining them into unique cartoon features. Works with other Mr. Pixel programs.

Mr. Pixels Game Maker

MindScape
\$ 29.95 Diskette
for: C64

Allows children 9 and older to create their own arcade games using 'if/then' statements for rules and adding predrawn or original characters and backgrounds (like those created from 'Paint Set' or 'Cartoon Maker').

Mr. Pixels Paint Set

MindScape
\$ 29.95 Diskette
for: C64

Teaches children 8 and older an intuitive understanding of programming while they explore their creativity. Drawing in full color or change other drawings. Works with other Mr. Pixel programs.

Rainy Day Fun

Thorn EMI
\$ 39.95 Diskette
for: C64

Ten creative activities that include: Connect-the-dots, Mask-maker, Sliding puzzles, Banner maker, Fortune Teller, Mouse Maze, and Coloring Book.

Scrambled Verses

Smokey Mountain Software
\$ 29.95 Diskette
for: C64

Your task is to recognize the proper order of each line in a multi-line Bible selection and organize them correctly. For home or Bible study use. Ages 8 and up.

Scramble

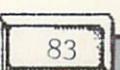
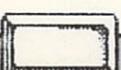
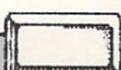
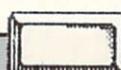
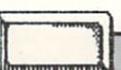
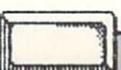
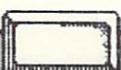
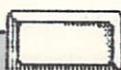
Greenwood Software
\$ 20.00 Diskette
for: C64

Word game that scrambles the letters of words so you can unscramble them.

Sea Voyagers

CBS Software
\$ 39.95 Diskette
for: C64

For ages 8 to adult. An electronic learning game which chronicles the lives and historic discoveries of 30 New World explorers from Balboa to Vespucci.



Shape Games

Boston Educational
\$ 24.95 Disk or Tape
for: C64

Patterns and basic shape recognition are drilled in this two game program. Audio rewards are given for correct answers. Preschool to second grade.

Show Director

MindScape
\$ 29.95 Diskette
for: C64

Children can direct their own animated productions. They write a script, then select a predrawn character and background. Add sound and music to complete the show.

Socratic Quiz

SocrateSystems
\$ 19.95 Disk or Tape
for: C64 C128

Question/answer screen game with color, sound, help, and score keeping. Sample files are included with an editor to construct your own. For classroom or homestudy, Jr high to college, depending on file complexity. Uses any of the other SocrateSystems files.

>>>> Circle Reader Service No. 37 <<<<

Sort 'em Series 1 & 2

Smokey Mountain Software
\$ 24.95 Diskette
for: C64

Series of programs to teach preschoolers and elementary age children Bible history and sequencing skills. \$24.95 each.

Spell That Word!

Microprograms
\$ 15.95 Diskette
for: C64

Grades 3 - 6. Game show format allows 2 students to spell words that have been flashed on the screen.

Spelling Tutor

Midwest Software
\$ 39.50 Diskette
for: C64

Complete spelling package comprised of a teacher's utility program, two drill games for students and a data disk containing 4289 words from 4 major spelling lists.

Teasers by Tobbs

Sunburst Communications
\$ 44.95 Diskette
for: C64

Motivates students to think logically to solve addition and multiplication problems in number-puzzle grids.

Tink's Adventure

MindScape
\$ 24.95 Diskette
for: C64

Children's illustrator and author, Mercer Mayer, designed this for children to learn ABCs and to become familiar with the keyboard.

Tink's Subtraction Fair

MindScape
\$ 24.95 Diskette
for: C64

Children learn principles of earning and spending as they visit the fair with Tink. Mathematical memory and concentration skills are developed thru the 5 levels. For ages 4 to 8.

Tinka's Mazes

MindScape
\$ 24.95 Diskette
for: C64

Innovative way for children to learn counting and develop basic math concepts.

Tonk in the Land of BuddyBots

MindScape
\$ 24.95 Diskette
for: C64

Children learn visual discrimination by distinguishing shapes and patterns and develop concentration and memory skills as well.

Tuk Goes to Town

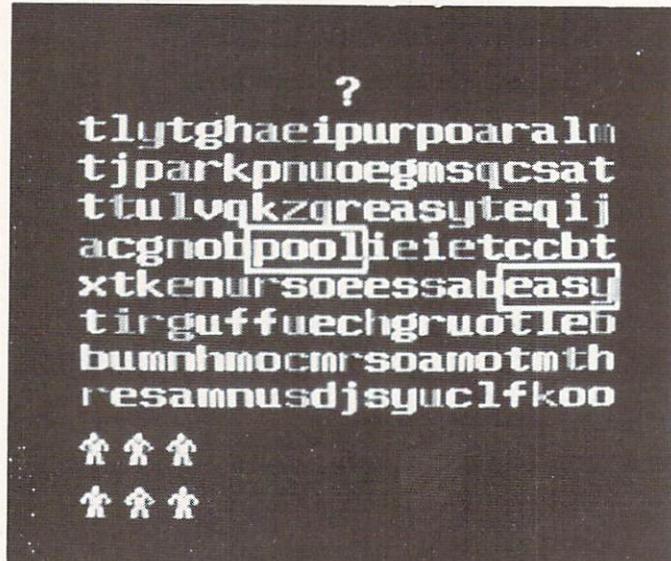
MindScape
\$ 24.95 Diskette
for: C64

Children become part of this graphic/text adventure as they choose Tuk's vehicle and places thru which he should travel. Develops the child's vocabulary and strengthens his spelling.

Welcome Aboard

Broderbund
\$ 24.95 Diskette
for: C64

Based on a cruise ship theme with Jim Henson's Muppet characters leading you through the world of computers (from BASIC to DBMS to word-processing to E-mail and games) on the S.S. MicroShip. Available 2nd half of 1985.



Word Party

Michael Crick
\$ 14.95 Diskette
for: C64

Word search game for families, parties or the classroom. Word Party (previously published by UMI and K-Tell under as 'Word Feud') is now being published in English, Spanish, French, German, and Esoteric. As a party game it requires secret signals, bluffing, deception, as well as work skills and quick reflexes.

Word Zapper I

Micrograms
\$ 27.95 Diskette
for: C64

Grades 3 - 5. Game show format where you must zap incorrectly spelled words.

MISCELLANEOUS RECREATIONAL

If it's fun and you
can't find it listed
anywhere else, we
probably stuck it
here!

Pinball Construction Set

Electronic Arts
\$ 39.95 Diskette
for: C64 ****

INFO=64's choice for best recreational software of 1983. Much more than a game. You can build almost any pinball game you can imagine using a super parts box of components, then go to a screen that lets you control gravity, rebound strength etc. and save them to disk. Many pre-designed pinball machines as well.

(-B.D.) See Gallery, Issue #3

Sky Travel

Commodore
\$ 39.95 Diskette
for: C64 ****

Commodore has done it again with an educational and fun masterpiece. This electronic planetarium displays more than 1200 stars and 88 constellations in their proper positions over a 10,000 year period. Printer dumps and more. A must buy!

(-B.D.) See Gallery, Issue #7

64 Collection (#1 - #15)

Public Domain
\$ 10.00 Disk or Tape ***+
for: C64

An excellent value with at least 25 assorted programs (games, utilities, education) per disk or tape. Better stuff than many 'budget' software company titles.

(-B.D.)

Trivia Fever

Professional Software
\$ 39.95 Diskette ***+

If you're not near 'trivia overdose', then this belongs with the rest of your collection. Notable in that it can be played with or sans computer, and offers numerous handicapping features to insure a fair and interesting game.

(-B.D.) See Gallery, Issue #6

Eliza

Artificial Intelligence
\$ 45.00 Disk or tape ***
for: C64 C128

A full implementation of the classic artificial intelligence program written at MIT in 1966. Eliza is a Rogerian Psychotherapist who responds to questions or statements typed in by the user. Eliza's remarks are often surprisingly appropriate. Written in BASIC, this program is easily modified for those interested.

(-Staff)

1984 Contest C64

Public Domain
\$ 10.00 Disk or Tape
for: C64

This collection was assembled from the contest entries that Public Domain, Inc. received from their 1984 programmers contest. Covers a wide range of applications.

(-Staff)

Cryptologic

Lawco
\$ 19.95 Diskette
for: C64

A set of 2 puzzles that require logic to solve.

Science Fiction Trivia

Infinity Software
\$ 25.00 Diskette
for: C64

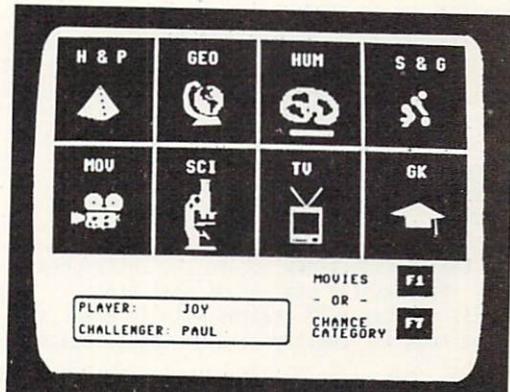
For all you loyal fans of the Outer Space Classics (Star Wars, Star Trek, etc.). Trivia game for 1 to 4 players or teams can compete against the clock to answer multiple choice questions about the last 25 years' sci-fi movie and tv shows. Includes on-screen scoring, timer, pause, and hi-res graphics of your favorite sci-fi scenes.

>>> Circle Reader Service No. 36 <<<

Trivia 64

Artworx Software
\$ 19.95 Diskette
for: C64

For 2 to 4 players or teams. Joystick controlled, just press the fire button for one of 2100 questions and press again for the answer. Colorful graphics and challenging questions.



Trivia Plus

Academy Software
\$ 24.95 Diskette
for: C64

Takes full advantage of the C64's graphics and sound with over 3,500 questions (as well as 100+ musical selections played on the C64 and you must identify). Also includes an unique 'challenge' mode. No typing required, joystick operated with T/F or multiple choice. for 1 to 6 players.

GENERAL EDUCATIONAL

INFO

The computer as a teaching aid. From arithmetic to zoology your computer can help you to learn.

Guitar Master

Mastersoft

\$ 29.95 Diskette ***
for: C64

Part entry level instruction, part advanced theory and programmed in BASIC, Guitar Master is more reference material than a teacher. Lessons are sketchy and theory oriented. Fattened with redundancy.

(-B.D.)

Animal Stories

Micrograms
\$ 27.90 Diskette
for: C64

Grades 2 - 6. Contains 12 stories for remedial readers. Covers literal and interpretive comprehension, sequencing and recognizing the main idea.

Basic Facts Fun

Micrograms
\$ 27.95 Disk or Tape
for: C64

Grades 3 - 5. Programs to help teach 2-digit add/subtraction and multiplication and division.

Big Birds Funhouse

CBS Software
\$ 39.95 Diskette
for: C64

For children ages 3 - 6. Allows children to develop visual/auditory match and discrimination abilities as well as counting and memorization. Includes keyboard overlay.

Biology

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Teaches the difficult new vocabulary introduced in biology. Matches the content of most biology textbooks. Contains 35 lessons with 10 exercises each, and room for additional user input lessons.

CCI Super Word Find

Clockwork Computers
\$ 19.95 Disk or Tape
for: C64

For teachers and cross-word enthusiasts to achieve an educational objective or just for entertainment. Program consists of user specification of list of words (from 2 to 50), print out options, answer key, and the puzzle itself (10x10 to 40x25).

1024 KB MEMORY



Here is one way to draw the structure of a sugar. Remember, a sugar is a simple carbohydrate. Notice, that although there are H and OH units on each side of the chain, they are not directly connected. On one end of the molecule, is the -CHO or aldehyde group.

Space m

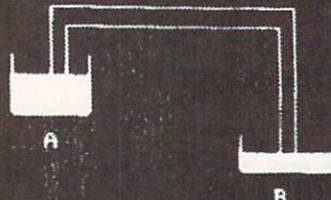
Biology Series

American Peripherals
\$ 525.00 Diskette
for: C64

Sequential series that covers an entire high school course in biology, topic by topic. Consists of mini-lessons that introduce, develop and quiz you in biology (explanations are given for incorrect answers). Contains 72 programs.

1

Imagine a siphon connecting a beaker of water to an empty beaker.



The water moves from the higher to lower position. Nature proceeds from the higher energy state to the lower energy state.

Space m

Chemistry Series

American Peripherals
\$ 340.00 Diskette
for: C64

Sequential series that covers an entire high school course in chemistry. Each program consists of a series of mini-lessons. As new topics are introduced and developed, the student is then questioned and explanations are given for incorrect answers. The entire set contains 43 programs on disks.

EasySign

Nufekop
\$ 19.95 Diskette
for: C64

A tutoring program designed to help any age person to learn the hand sign alphabet. Hi-res pictures of hands forming the alphabet.

Figuring with Fractions I

Micrograms
\$ 55.95 Diskette
for: C64

Grades 5 - 7. Programs covering mathematics with fractions.

French

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Teaches English to French translation. Reinforces syntax and knowledge of French idioms. Includes 98% of the vocabulary in most French textbooks. Contains 35 lessons with 10 exercise each, and room for additional user input lessons.

Friendly Figures

Micrograms
\$ 41.85 Diskette
for: C64

Grades 1 - 2. Programs to help young children learn about counting and simple addition and subtraction.

Grammar

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Sharpens and reinforces English grammar and usage. Tackles such areas as lay/lie, who/whom, and more. Contains 35 lessons with 10 exercises each and room for additional user input lessons. Grades 4-6.

Health and Safety

Micrograms
\$ 67.95 Disk or Tape
for: C64

Grades 3 - 6. Programs that contain information concerning bicycle safety, health and first aid areas.

Hodge Podge

Artworx Software
\$ 19.95 Diskette
for: C64

Provides knowledge in a most enjoyable and non-intimidating fashion for children from 18 months to 6 years of age. Consists of many cartoons, animations and songs.

Learn to Read

American Educational Computer
\$ 39.95 Diskette
for: C64 C128

Teaches the structure of words to ensure success in reading. Such topics as prefixes, suffixes, contractions, synonyms, homonyms, antonyms, etc., are among the structural skills included in the program. For grades 1-4.

Learning Numbers

Micrograms
\$ 41.95 Disk or Tape
for: C64

Grades K - 1. Programs to help young children develop an understanding of counting numbers.

Linkword

Artworx Software
\$ 24.95 Diskette
for: C64

Learn a vocabulary (available in Spanish, Italian, German or French) of about 400 words, basic grammar, and pronunciation in 10 hours. Each package includes an audio tape so you can hear the correct pronunciation of new words.

Match Master

Micrograms
\$ 69.95 Disk or Tape
for: C64

Grades 5 - 8. Students are given a 3 minute time limit in which to match the names of famous people to notable accomplishments.

MicroMouse

Greenwood Software
\$ 20.00 Diskette
for: C64

Programming environment which enables anyone to discover computer programming.

Monkeybuilder

Artworx Software
\$ 24.95 Disk or Tape
for: C64

Colorful animated program is designed to increase spelling and word analysis skills for children ages 7-12. The monkey is directed by the child to catch the various word parts with his net and place them on the lift. 17 different levels.

Monkeynews

Artworx Software
\$ 24.95 Disk or Tape
for: C64

Innovative reading comprehension program, for children ages 7-12. Allows for active participation in selection of story direction, answering questions, finding and replacing missing words and even typing headlines for the story.

Movie Musical Madness

CBS Software
\$ 39.95 Diskette
for: C64

Makes you the director, producer, writer and composer of your own Hollywood movie musicals.

Mr. Readwell - Primary

Micrograms
\$ 41.85 Disk or Tape
for: C64

Grades 1st - 3rd. Child selects story and reading speed, then after each page of reading, the child is asked questions over the reading. Intermediate version available for grades 3 - 6.

My Book

Boston Educational
\$ 34.95 Diskette
for: C64

Students create their own stories, including pictures and text, with this creative writing tool. Using a joystick, they select from the 6 menu options, like adding captions to their favorite pictures, also read, save, & print. Preschool to second grade.

Number Patterns

Micrograms
\$ 27.95 Diskette
for: C64

Grades 1 - 2. Programs to help young children develop an understanding of even and odd numbers, and sequencing numbers.

Phonics

American Educational Computer
\$ 39.95 Diskette
for: C64 C128

Begins with phonics, the building blocks of reading skills, introduces the sounds of vowels and consonants in reading: short vowels, long vowels and initial consonants. For grades k-3.

Section number 8

In the late 1940's Shockley discovered the transistor effect.

Imagine a piece of N-type semiconductor fastened to P-type in a circuit.

At the junction, there are



many electrons on the N side and many holes on the P side. If the electrons crossed, there would be an imbalance in the N-type, and so it does not happen with the current off.

Press space to continue m for menu

Physics Series

American Peripherals
\$ 475.00 Diskette
for: C64

Covers an entire high school course in physics, topic by topic. Each program consists of a series of mini-lessons. As new topics are introduced and developed, the student is given 'mastery' questions, and explanations are given for incorrect answers. Contains 64 programs.

Picture Phonics

Micrograms
\$ 41.95 Diskette
for: C64

Grades preschool to 1st. Over 100 colorful and easily recognizable pictures along with large easy to read lower case letters.

Primary Language Skills

Micrograms
\$ 41.95 Diskette
for: C64

Grades 2 - 3. Program covering punctuation, capitalization and grammar.

Professor Snead

Micrograms
\$ 41.95 Disk or Tape
for: C64

Grades 5 - 7. Contains 6 stories and after each reading page, the reader is asked comprehension questions over the reading.

Reading Comprehension

American Educational Computer
\$ 39.95 Diskette
for: C64 C128

Improves reading comprehension by working with finding main ideas, cause and effect, similarity and differences, predicting outcomes, differentiating between fact and opinion, etc. Grades 1-8.

Reading Graphs

Micrograms
\$ 15.95 Diskette
for: C64

Grades 4 - 6. Pictographs, bar, double bar, and line graphs are introduced.

Reading Readiness

Micrograms
\$ 41.85 Diskette
for: C64

Grades preschool to 1st. Many programs on one disk to teach letters of the alphabet.

Reading Series (Grades 3-6)

American Peripherals
\$ 99.00 Diskette
for: C64

Each grade is a series of 15 lessons, close style reading passages and their associated questions.

RomperRoom: I love my alphabet

First Star
\$ 29.95 Diskette
for: C64

2-5 year olds learn actions and feeling through 4 different learning techniques.

SAT Perfect Score

MindScape
\$ 69.95 Diskette
for: C64

Allows users to study all sections of the SAT with material presented on 6 double sided disks. Teaches students good test-taking techniques. Includes timed tests.

Science

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Three separate programs which cover life, earth/space, and physical sciences. Can be used in conjunction with elementary science programs. Contains 35 lessons with 10 exercises each, and room for additional user input lessons. Grades 3-4, 5-6, 7-8.

Sequencing Sam -Primary

Micrograms
\$ 41.95 Disk or Tape
for: C64

Grades 1st - 3rd. Child selects story and reading speed, then after each page of reading, the child is asked to sequence story events. Intermediate version available for grades 3 - 6.

Sharing Science I

Micrograms
\$ 41.95 Disk or Tape
for: C64

Grades 2 - 5. Programs that contain information concerning basic concepts in 6 or 7 science curriculum areas. Also available version II for grades 6 - 8.

Spanish

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Teaches English to Spanish translation. Reinforces syntax and knowledge of Spanish idioms. Includes 98% of the vocabulary in most Spanish textbooks. Contains 35 lessons with 10 exercises each, and room for additional user input lessons.

Speed Math

Micrograms
\$ 27.95 Disk or Tape
for: C64

Grades 3 - 5. Programs to help teach basic multiplication facts with an emphasis on rapid responses.

Spelling

American Educational Computer
\$ 39.95 Diskette
for: C64 C128

Uses 'test-teach-test' approach to teach the spelling of 4,233 words most often used in writing. Incorrectly spelled words are added to 'words to study' list and are deleted when correctly spelled during post-testing. For 3 users, grades 2-8.

States and Capitals

Micrograms
\$ 15.95 Diskette
for: C64

Grades 4 - 6. Hi-res outline map of the U.S. and students may name states &/or capitals.

Stickybear

Weekly Reader Software
\$ 19.95 Diskette
for: C64

Easy to use educational program that also fun. For ages 5 - 10.

Study Skills I

Micrograms
\$ 27.95 Diskette
for: C64

Grades 3 - 4. Contains 2 programs 'Alphabetical Order' and 'Guide Words' which concentrate on alphabetizing skills.

The Professor

Progressive Peripherals
\$ 34.95 Diskette
for: C64

An in-depth self tutorial for the C64 on a two sided disk. Menu driven and covers BASIC, sound, music, graphics and quizzes your comprehension.

U.S. Adventure

First Star
\$ 29.95 Diskette
for: C64

Teaches geography, history and trivia of the USA.

U.S. Geography

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Teaches facts and information about our states, cities, landmarks, lands, waterways, and climates. Lessons are broken into geographical regions such as Mid-West, Pacific, etc. Contains 35 lessons with 10 exercises each, and room for additional user input lessons. Grades 5 and up.

U.S. Government

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Reviews the U.S. constitution, structure of federal, state and local government, policies and important laws. Contains 35 lessons with 10 exercises each, and room for extra user input lessons.

U.S. History

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Designed to supplement an introductory course. It teaches important dates, facts, and events in U.S. history. Contains 35 lessons with 10 exercises each, and room for extra user input lessons.

Vocabulary Crosswords I

Micrograms
\$ 41.95 Disk or Tape
for: C64

Grades 3 - 5. Crossword puzzle format is used to help students strengthen their vocabularies.

Vocabulary

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Helps the user increase his or her vocabulary by working with synonyms, antonyms, homonyms, etc. Contains 35 lessons with 10 exercises each. There is room for the user to put in additional lessons. Grades 4-6.

World Geography

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Teaches facts and information about continents, countries, capitals, cities, waterways and oceans. Contains 35 lessons with 10 exercises each, and room for extra user input lessons. Grades 8 and up.

World History

American Educational Computer
\$ 19.95 Diskette
for: C64 C128

Designed to supplement an introductory course. It teaches important dates, facts, and events in world history. Contains 35 lessons with 10 exercises each, and room for extra user input lessons.

ADVANCED EDUCATIONAL

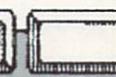
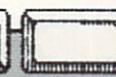
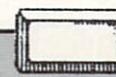
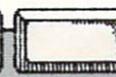
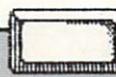
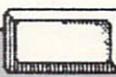
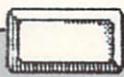


Statistics, calculus,
electronics, and
other tough subjects
soften up with a
little software aid.

C-64 Curve-Fitting

Nth Digit Solutions
\$ 29.95 Diskette
for: C64

Fits the user's data to over 20 different mathematical curve types and selects those which best fit the input data. The curves can then be used to make projections based on the data, and to express the data mathematically in the user's own programs.



Chessmate

Cardinal Software
\$ 29.95 Diskette
for: C64

Not a 'computer plays you' program, but a powerful learning tool that allows you to analyze, master, bookgames, open, save and print games. 'Chess Movie' mode lets you step through any entered or saved game. Has single stroke commands to memorize any board position and recall it after playing through each variation.

College Pak

Useful Software
\$ 25.00 Diskette
for: C64

20 plus college level programs teaching: math, chemistry, medicine, psychology, finance etc.

-	FREQUENCY	AMPLITUDE	PHASE
	800 hz	- 12.23 db	89.4 deg
	825 hz	- 11.05 db	89.3 deg
	850 hz	- 9.75 db	89.2 deg
	875 hz	- 8.27 db	89.1 deg
	900 hz	- 6.56 db	88.9 deg
	925 hz	- 4.49 db	88.6 deg
	950 hz	- 1.87 db	88.1 deg
	975 hz	1.77 db	87.1 deg
	1000 hz	7.98 db	84.8 deg
	1025 hz	27.55 db	- 3.8 deg
	1050 hz	7.99 db	- 84.8 deg
	1075 hz	2.14 db	- 86.9 deg
	1100 hz	- 1.27 db	- 87.9 deg
	1125 hz	- 3.67 db	- 88.4 deg
	1150 hz	- 5.51 db	- 88.7 deg
	1175 hz	- 7.81 db	- 88.9 deg
	1200 hz	- 8.26 db	- 89.1 deg

Another frequency sweep? (y/n)

Electronic Circuit Analysis

Nth Digit Solutions
\$ 29.95 Diskette
for: C64

Includes two programs to analyze the frequency and phase output of most any electronic circuit. Analyzes ladder circuits of up to 200 components, and user specified circuits of up to 40 components and 25 component junctions. Allows resistors, capacitors, inductors, NPN and FET transistors, op-amps and transformers. Output to screen or printer.

Electronic Design Utilities

Nth Digit Solutions
\$ 19.95 Diskette
for: C64

Menu driven collection of 13 programs to design active and passive filters and to solve numerous electronic design problems including: resonance, Ohm's Law, decibel conversions, attenuators, etc.

Excel-A-Read

American Educational Computer
\$ 49.95 Diskette
for: C64 C128

Designed to increase the users reading rate while maintaining and improving reading comprehension. Improves left-to-right and top-to-bottom page eye movements, scanning and highlighting skills. Contains 60 reading selections of a wide interest. Grades 5-adult.

TEACHING AND ADMINISTRATION



Administrators and
teachers have an
overwhelming amount
of paperwork to do.
Now they've got help.

Attendance Master

Melcher Software
\$ 39.95 Diskette
for: C64

Stores complete attendance info for up to 39 students per class for an entire semester. Unlimited classes and user friendly.

Basketball Stats

Midwest Software
\$ 35.00 Diskette
for: C64

Provides statistical analysis for a roster of 18 players for a 30 game season.

Bingo Printer

SocrateSystems
\$ 19.95 Disk or Tape
for: C64 C128

Prints BINGO cards and a call sheet for an entire classroom or any large group, using the same files (vocabulary types work best) used in all the other SocrateSystems programs. Jr high to college, depending on file complexity. Includes editor and sample files.

>>> Circle Reader Service No. 7 <<<

Body Man I

Nanosec
\$ 34.95 Diskette
for: C64

First in a series of 3 programs that depict the human body and its associated makeup in fine detail. 50 hi-res screens show all major structures of the human body, demonstrate their purpose with descriptions and quiz the user.

CompuGrade

Melcher Software
\$ 29.95 Diskette
for: C64

Computes average and letter grades. Tests may be weighted in any fashion and any letter scale may be used. Many options like dropping lowest & highest test scores.

Dictionary

SocrateSystems
\$ 19.95 Disk or Tape
for: C64 C128

Transforms your computer into an instant dictionary/glossary for foreign language study, English vocabulary, history or biology terms, etc. For classroom or homestudy use, jr. high to college, depending on file complexity. Includes editor. Each SocrateSystem program is sold separately, but files made up for any other may be used.

BASIC CLAS	
Num	Title
1	INTRODUCTION
2	AUTHORING FORMATS
3	FILL-IN QUESTIONS
4	TRUE/FALSE QUESTIONS
5	MULTIPLE CHOICE Q'ST
6	MATCHING QUESTIONS

Lesson number? ■

CLAS

Touch Technologies
\$ 89.95 Diskette
for: C64

Computerized Lesson Authoring System is a tool designed for educators and parents to allow them to create their own courseware. No computer experience is necessary to create a single lesson on a single topic or a whole semester's course. The system includes an author disk, student disk, and a comprehensive user's guide.

Football Scout

Midwest Software
\$ 49.50 Diskette
for: C64

A scouting analysis system which handles up to 250 players on each team scouted. Produces a play list showing down, distance, situation, etc., a tendency list and zone-hash-down-distance reports.

Genesis 2

Greenwood Software
\$ 20.00 Disk or Tape
for: C64

Computer assisted instruction authoring system which allows teachers or parents to create computer exercises in a question/answer format.

Grade Manager 3

Smokey Mountain Software
\$ 69.95 Diskette
for: C64

Grade calculation, management and reporting system. Maintains detailed student, assignment history, absences, tardies, etc.

Grade Organizer

Cardinal Software
\$ 39.95 Diskette
for: C64

Stores names and grades of students in 6 different classes with up to 40 students per class and 680 grades per student. Prints interim and final reports, class name lists and individual grade up-dates at the touch of a button. For teachers of students from intermediate through college.

Gymnastics

Midwest Software
\$ 35.00 Diskette
for: C64

A record keeping and statistical program for male/female gymnastics meets at the high school, college, or club level. Up to 24 contestants per team and 32 teams.

Master Grades

Midwest Software
\$ 35.00 Diskette
for: C64

A simple to use teachers grading program. Works on the points system and keeps cumulative points only, up to 9999 per marking period for up to 200 students in one file.

Multi Printer

SocrateSystems
\$ 19.95 Disk or Tape
for: C64 C128

Prints multiple choice tests from the same master files which work with all other SocrateSystems programs. Sample files are included with an editor to construct your own. For teachers use, elementary to college, depending on question file complexity. Questions and answers are independently randomly generated and a key is printed for each version of each test.

SPP-Statistics for PCs

Kobetek Systems
\$ 295.00 Diskette
for: C64

Menu driven, includes in part: descriptive statistics, cross-tabulation, correlations, linear/quadratic/cubic regressions and multiple regressions, one-way and two-way anova and non-parametric stats. Missing values supported throughout. Data displayed as histograms, scatter plots, normal probability plots, box diagrams and tables. Junior version available for \$75 (US).

>>> Circle Reader Service No. 38 <<<

Teachers Aide

Quantum Leap
\$ 16.00 Diskette
for: C64

Keeps schedules, stores scores, alphabetize/cross reference students and teachers.

Teachers Gradebook

American Peripherals
\$ 24.95 Diskette
for: C64

This program has been refined over and over to do most of the functions wanted by most teachers. Keeps class lists, grades, automatic-averaging and weighting, optional alphabetized output to disk, printer or screen.

Test Maker

American Peripherals
\$ 34.95 Diskette
for: C64

Teacher enters multiple choice questions and then the choices for answers, computer then produces as many versions of that test as desired to the screen or printer. Flexible and any question may be up to 10 lines long.

Test Printer

SocrateSystems
\$ 19.95 Disk or Tape
for: C64 C128

Prints varied versions of tests or review sheets with keys, using files of questions created for this or any other SocrateSystems program. Includes editor. For classroom or homestudy use, elementary to college, depending on question file complexity.

TestMaster

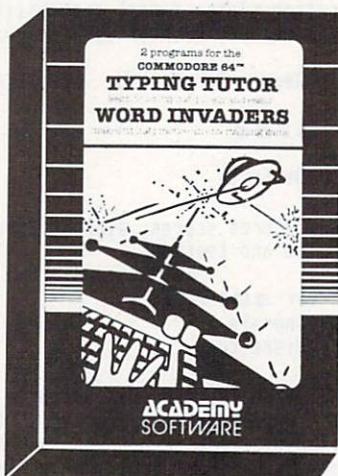
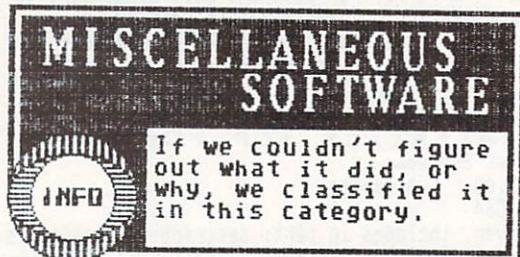
Midwest Software
\$ 35.00 Diskette
for: C64

Complete test and quiz development system which allows creation of true/false, multiple choice, completion and short answer tests.

The Test Maker

Melcher Software
\$ 39.95 Diskette
for: C64

Allows the user to create a data base of multiple choice questions, up to 500 per file with unlimited number of files. Complete documentation and user friendly.



Typing Tutor + Word Invaders

Academy Software
\$ 24.95 Disk or Tape ****+
for: C64

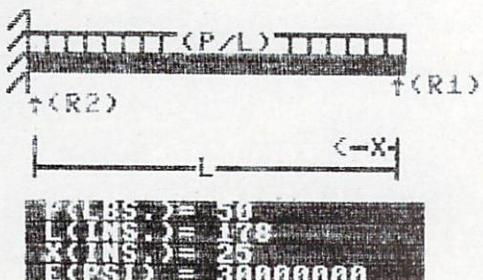
The best typing tutor we have seen yet, it can get your children touch-typing in short order and bring an old hand up to speed. Includes excellent training modules and an arcade-type mode to liven things up and put some pressure on.

(-B.D.)

64-BEAM CALC

BEAM COND.

80



ENTER NEW E OR HIT ENTER

64-Beam Calc

Hartley Software
\$ 37.50 Diskette ****

For designers, architects, engineers, students or anyone who wants to quickly and accurately determine the deflection and stresses in a structural beam. User friendly and comes complete with graphics, prompts and function key driven aids (help, stop, main menu, continue), allows for 'what ifs'. Screen or printer outputs.

(-B.D.) See review, Issue #5
">>>> Circle Reader Service No. 4 <<<

S.A.M.

Don't Ask Computer Software
\$ 34.95 Diskette ****

for: C64
SAM the Software Activated Mouth has natural (well...) sounding speech, variable pitch, speed, inflection, english text-to-speech conversions, easy to use in programs.

(-B.D.)

Bartender Guide & Host

After Six Software
\$ 14.95 Diskette ***

for: C64
Contains drink recipes and blood alcohol content computation for social-conscious hosts. Enter your inventory of ingredients and get a list of drinks you can offer to your guests (120 possible). In use, the program is slow, each recipe is loaded after an error free key-in of the name, a menu-selection would be easier and neater.

(-B.D.)

ABL-64

Input Systems
\$ 39.95 ROM
for: C64

Transparent auto boot/load/run cartridge for security, BBS, and other constant use systems.

Ballistics

Value-Soft
\$ 39.95 Diskette
for: C64

For gun reloaders: Check trajectory for popular rifle bullets by weight, caliber, or style. Includes tables for Hornady and Speer bullets, plus others. Standard metro or high-altitude and low temps. Prints out table of trajectory, bullet drop, wind deflection, and more.

Baseball Handicapping

PDS Sports
\$ 49.95 Diskette
for: C64

Includes 'Baseball Statistics' and makes you better prepared to predict the winner of any game, at least mathematically.

Baseball Statistics

PDS Sports
\$ 39.95 Diskette
for: C64

See how opposing baseball teams stack up against each other. See summaries and performance stats on every team in the major league.

Basketball Handicapping

PDS Sports
\$ 49.95 Diskette
for: C64

Includes 'Basketball Statistics' and gives you an inside look into the outcome of games by mathematically equating statistics, lines and point spreads.

Basketball Statistics

PDS Sports
\$ 39.95 Diskette
for: C64

Comprehensive basketball program that allows you to ask 'what if' into every imaginable comparison and formation.

Business Researcher

Briley Software
\$ 60.00 Diskette
for: C64

Revised Simplex decision-aiding management tool. Only requires basic algebra knowledge and it does the rest to help make profitable decisions with limited supplies.

C64 Tutor

Comprehensive Software
\$ 29.95 Disk or Tape
for: C64

C64 tutorial with screen display editor, sprite editor, music synthesizer, and programmers calculator.

Cam-64

Input Systems
\$ 295.00 ROM
for: C64

Call Accounting manager collects SMDR data from a telephone computer system and organizes it into several different hardcopy formats.

Christmas Adventure

BitCards
\$ 16.95 Diskette
for: C64

Find Santa Claus in his ice castle in this mainly text (converted-from-Apple) adventure with some humor. Customize the program for a gift with the recipient's name and other personal info, that pops up in the middle of the game.

Clearing House

F/22 Press
\$ 49.95 Diskette
for: C64

Identifies bad checks and warns (visually and audibly) users not to cash them. Prints a complete report on each check to screen or the printer.

Connections

Krell Software
\$:na Diskette
for: C64

Unique program consists of a database of facts. Kids are encouraged to explore the data and formulate their own theories about it, then test their theories back against the database. Teaches logic and the scientific method. Additional databases and a users group are available.

Control Mode 1

CGRS Microtech
\$ 125.00 Diskette
for: C64

Control software for use with Diadacs 1 (see hardware: data acquisition & control section) Allows user to build complex control sequences for home security, energy management, etc.

Dark Star

F/22 Press
\$ 64.95 Disk or Tape
for: C64

Solves all of the exposure and filtration problems normally encountered in the photographic darkroom. Can automatically operate the Omega d5500 enlarger. 'Plus' version (\$89.95 disk) combines both Dark Star and Time Star in one program.

Distil Simu

Engrsoft
\$ 36.00 Diskette
for: C64

Distillation simulator for chemical engineers. Features menu-driven, input error checking, hardcopy to most popular printers, tutorial, stagewise stepoff of stages on McCabe Thiele diagram and VLE curve fit and plot option.

EMED

DMC Software
\$ 29.00 Diskette
for: C64

Electronic Medical Database designed for home use. Contains data on over 460 diseases and 325 symptoms. Many options for the user.

Energy Manager

Powerline Software
\$ 59.95 Diskette
for: C64

Energy analysis program to help control energy cost in homes and buildings, using utility energy bills as a data base it provides a method to maintain vigilance over energy use and measure the effect of energy conservation.

Eyebrow Lifting Speller

Don Peterson
\$ 5.00 Diskette
for: C64

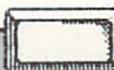
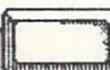
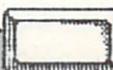
Allows a person who is severely physically handicapped or voiceless or both, to speak with the S.A.M voice synthesizer or type any word in the language with the mere lift of an eyebrow (or any other useable muscle) with an electronic switch mounted on the muscle and connected to the joystick port.

Football Handicapping

PDS Sports
\$ 49.95 Diskette
for: C64

Includes 'Football Statistics' package and forecasts the outcome of football games based on massive amounts of statistical data, morning lines, and point spreads.

>>> Circle Reader Service No. 22 <<<



Football Predictor

Professor Jones
\$ 99.95 Diskette
for: C64 C128

Complete football analysis to predict the outcomes by evaluating the teams statistics.

Football Team Statistics

PDS Sports
\$ 39.95 Diskette
for: C64

Compare teams in over 60 offensive and defensive situations and watch the matchups on the screen. Every team is given a power rating. PDS also provides year-to-date data disks for a nominal charge.

Gardener's Assistant

Shannon Software
\$ 29.95 Diskette
for: C64

Produces vegetable garden layout based on input of garden size, shape, location and vegetables desired.

GreenMaster Pack

Greenwood Software
\$ 20.00 Diskette
for: C64

For the new C64 user, includes a graphics tutorial and a disk utility program.

Harness Driver Statistics

PDS Sports
\$ 39.95 Diskette
for: C64

A complement to the 'Harness Race Handicapping' system that tells you all you need to know about the driver.

Harness Race Handicapping

PDS Sports
\$ 129.95 Diskette
for: C64

The fast and easy way to find out what races and what horses should be looked at. Summarized in a 'power rating' format.

Hidden Words

Smokey Mountain Software
\$ 19.95 Diskette
for: C64

Generates word search puzzles from words you supply.

Horse ID/Info

Himanme Programs
\$ 15.00 Diskette
for: C64

Allows you to keep any general records you want on your horses. You decide what categories of information to use.

Jockey Statistics

PDS Sports
\$ 39.95 Diskette
for: C64

Analyzes all local race horse jockeys and shows you why the top 15 jockeys at local tracks win over 90% of the time.

Krell Software

Krell Software
\$ 19.95 Diskette
for: C64

Various software including SAT, ACT, GMAT, NTE, GRE, TOEFL and MAT preparations, as well as many other educational areas.

League Bowl - 40

Briley Software
\$ 220.00 Diskette
for: C64

A professional package for secretaries of bowling leagues. Handles up to 42 teams plus subs (about 420 bowlers) per league. Full calculating features and many options. There is also an 'Entry-Level' version available and many utility programs also available for each.

Limited Gold Edition

Professor Jones
\$ 299.95 Diskette
for: C64 C128

Complete racing (thoroughbred, greyhounds, or harness at \$299.95 each) analysis that uses the racing form to predict the finish of each race. Complete documentation and end user support.

Ltd. Gold Edtn. Thoroughbreds

Professor Jones
\$ 299.95 Diskette
for: C64 C128

Complete thoroughbred analysis that uses the racing form to predict the finish of each race. Complete documentation and end user support.

MasterType Figures & Formulas

Scarborough Systems
\$ 29.95 Diskette
for: C64

Learn weights and measures.

Number Cruncher Stat System

Number Cruncher Stat Systems
\$ 59.95 Diskette
for: C64

An integrated, menu-driven statistical system including multiple regression, oneway ANOVA, t-tests, chi-square and more.

PDI Best of C64 Series

Public Domain
\$ 10.00 Disk or Tape
for: C64

Three separate disks for games, utilities, or education for \$10 each. All are loaded with programs.

PDI Hamfest Special #1

Public Domain
\$ 10.00 Disk or Tape
for: C64

A collection of 18 programs for the C64 user who has interest in electronics or ham radios.

Pedigrees

Himanme Programs
\$ 15.00 Diskette
for: C64

Produces a 4 generation pedigree for each animal, using the standard format. Display or screen printouts.

Phonedial - 64

Input Systems
\$ 21.95 Diskette
for: C64

Acoustically dials a touch tone phone. Program includes a program for random, or sequential dialing through a selected exchange or dial up your own data list.

Quarter Horse Handicapping

PDS Sports
\$ 129.95 Diskette
for: C64

Assists you in determining which races are payable and which races are not, by playing only those races in which the system indicates a horse having a distinct advantage.

Right On Programs

Right On Programs
\$ 19.95 Diskette
for: C64

Various programs of mainly educational applications.

RNAV3 Navigator/w

Briley Software
\$ 29.95 Tape
for: C64

Flight planner, VOR/DME radio data, 11 western states. Only needs starting and ending points. Also available version for 17 northeast states.

RoadSearch

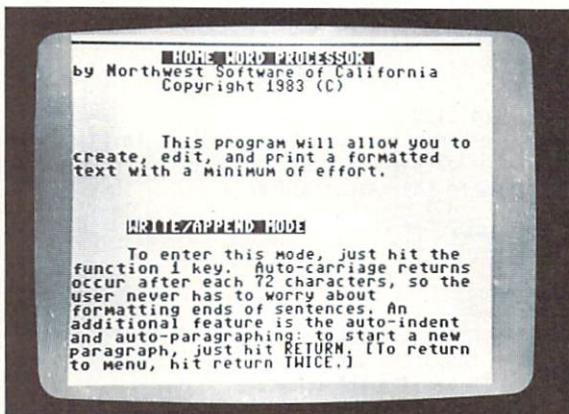
Columbia Software
\$ 34.95 Diskette
for: C64

Take your next trip with a computer listing showing the best route. Database covering 487 cities and road junctions in the USA and Canada. Also available is 'RoadSearch - Plus' (\$74.95) which in addition you can customize your roadmap with up to 250 towns/road junctions any where in N. America.

Show Records

Himanme Programs
\$ 15.00 Diskette
for: C64

Designed for a more elaborate reordering of show results. Displays name, date, class, placing, number of entries in class, points, judge's name, person showing.



Statistical Lottery/Lotto

Professor Jones
\$ 99.95 Diskette
for: C64 C128

Designed to give the user the ability to track all forms of lottery and lotto past winning numbers and then compile the most probable sets of numbers based on the past.

STAT

Melcher Software
\$ 24.95 Diskette
for: C64

A series of 11 statistical programs for students or professionals. Bar graph generator, binomial frequencies, confidence intervals, and more. Output to screen or printer.

Thoroughbred Handicapping

PDS Sports
\$ 129.95 Diskette
for: C64

Gives you an edge in predicting winners on the horseracing track.

Time Star

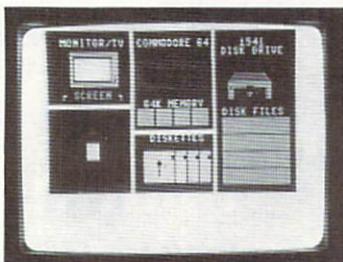
F/22 Press
\$ 24.95 Disk or Tape
for: C64

Turns the computer into a powerful sequence timer and allows the user to program as many as 15 sequenced events. Can automatically operate the Omega d5500 enlarger.

Track Simulator

Professor Jones
\$ 29.95 Diskette
for: C64 C128

Professional thoroughbred race track simulation program designed to test your handicapper skills.



Starter Kit

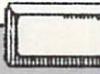
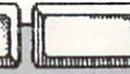
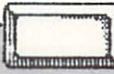
Kastel Technology
\$ 19.95 Diskette
for: C64

Collection of 10 easy to learn programs for the C64. Allows the novice to experiment with word processing, mailing list, graphics, sound, music and games.

Training Kit

Kastel Technology
\$ 29.95 Diskette
for: C64

Teaches a novice computer user how to operate their computer with interactive graphic simulations to lead you through. Covers printer and drive operation, BASIC, graphics, sound and music.



Trainer Statistics

PDS Sports

\$ 39.95 Diskette
for: C64

Analyzes all local race horse trainers and gives you a rating for each.

Cardette

Cardco
\$ 39.95
for: C64

Interface that allows you to use a non-CBM cassette deck. It seems that the economy type tape decks actually work better with this than the premium decks. (-B.D.)

INTERFACES

 Let your computer talk to third-party printers and other peripherals.

Easy-Print with Graphics

Progressive Peripherals

\$ 119.95
for: C64

Now we're talkin'! Not the cheapest, but easily our favorite printer interface to date. Switches on the outside allow easy configuration for your printer. Steel DIN plug, external reset switch, power cord to joy-port, built-in self-test, extensive manual, utility disk, optional 4k buffer (recommended) greatly enhances speed.

(-B.D.)

BusCard II

Batteries Included

\$ 199.95
for: C64

Adds BASIC 4.0 commands, IEEE interface, fully compatible with other software, built-in centronics printer port, resident m.l. monitor.

(-B.D.)

C64-Link

Richvale Telecommunications

\$ 149.95
for: C64

Data transfer between any device and other devices (i.e. serial-parallel, IEEE-serial, parallel-serial, etc.) BASIC 4.0 commands, simple networking of several C64's, m.l. monitor, resident terminal software and CP/M compatibility.

(-B.D.)

Card/Print +G

Cardco

\$ 79.95
for: C64

Full Commodore character set translation (as well as ASCII values for non-implemented characters). This at the same price that made the old Card/Print A a great value. We don't like the internal dip-switches (you have to completely open the housing), otherwise a pretty good value.

(-B.D.)

Card/Print B

Cardco

\$ 49.95
for: C64

Enhanced replacement for the old Card/Print A at a much lower price. Features include: new housing (which mounts neatly to the back of the printer instead of hanging out at the end of the cable), 3 micro-switches for locking the printer and interface in various configurations.

(-B.D.)

Cardette

Cardco
\$ 39.95
for: C64

Interface that allows you to use a non-CBM cassette deck. It seems that the economy type tape decks actually work better with this than the premium decks. (-B.D.)



CSI Connect IEEE Interface

Computer Specialties

\$ 99.95
for: C64 C128 CP/M

A serial to IEEE-488 interface that makes it possible to use the C64 with any standard CBM IEEE-488 device. Interferes with the correct operation of the serial bus with some programs. Currently the only C128 compatible IEEE interface. Try before you buy.

(-M.B.)

>>> Circle Reader Service No. 14 <<<

\$-saver switch

Value-Soft
\$ 29.95
for: C64 C128

Switchable connector allows 2 computers to share one printer, or disk drive. Or, connect two printers of two drives to the same computer.

ApriCord CD

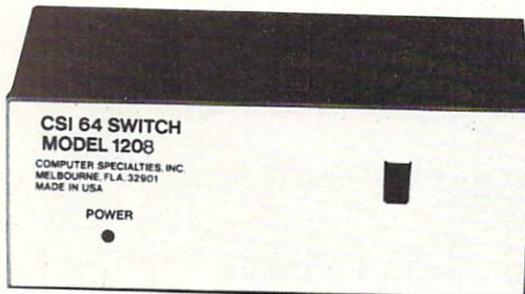
Apricorn
\$ 69.95
for: C64

Supports printing capabilities of the entire line of Commodore computers and allows parallel graphics printers to emulate CBM printers.

AutoPrint

The Microperipheral Corp.
\$ 69.95
for: C64 C128

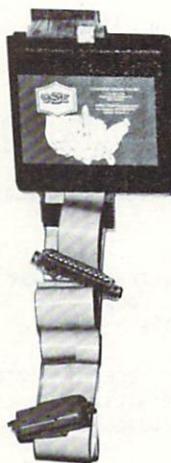
Auto dial/answer 300 baud direct connect modem with internal parallel printer interface. Full duplex in originate or answer, half duplex software selectable. Compatible with most terminal software (Vidtex, VIP, SuperTerm, Smart64) and connects thru the user port. Handshaking feature allows transmission to be suspended until printer is capable of accepting more data.



CSI-64 Switch Model 1208

Computer Specialties
\$ 164.95
for: C64

Allows eight C64s (up to 36 feet away from the Switch) to share a single disk drive and printer. A front panel numeric display indicates the current user.
 >>>> Circle Reader Service No. 17 <<<<



CSI-IE3CENT

Computer Specialties
\$ 89.95
for: C64

Allows all Commodore IEEE computers (PET, C128, etc) to output to parallel interface printers. Supports 7 or 8 bits. Works with the Commodore disk and operates using simple BASIC commands and machine language programs as used in word processors.
 >>>> Circle Reader Service No. 18 <<<<

CSI

Peripheral Systems of America
\$ 39.95
for: C64 C128

Commodore Serial Interface, has a programmable dip header for easy conversion to interface with a serial printer, modem or RS232 device.

D'Switch

Lawco
\$ 89.95 Diskette
for: C64

Allows the connection of three additional (non serial) peripherals to a Commodore computer.

E-Link

Progressive Peripherals
\$ 99.95
for: C64

Serial to IEEE interface for use with the C64 and IEEE devices like the SFD-1001 disk drive.

Easy-Link

Progressive Peripherals
\$ 99.95
for: C64

Serial interface that's 100% transparent, bi-directional and comes with its own power supply.

Easy-Print no Graphics

Progressive Peripherals
\$ 49.95
for: C64

Like the Easy-Print w/ Graphics but without graphics capabilities.

Grappler CD

Orange Micro
\$ 119.95
for: C64

A respected name in Apple circles. Orange Micro has released a 'Grappler' for the C64. Connects to both the serial and expansion slot (with feed-thru for both) and provides many modes of printer operation.

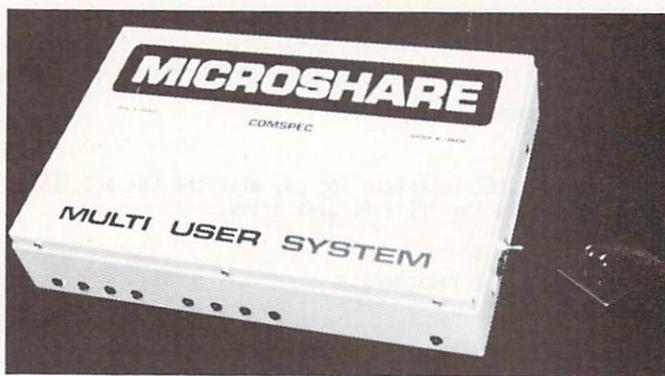


Instructor Monitor Prompter

Computer Specialties
\$ 2250.00
for: C64 C128 CP/M

Networking device for multi-station applications with the C64. Master unit can monitor and give prompts to any or all 16 slave units. The entire video screen of the slave unit being monitored is displayed at the master's screen at the touch of a key. For schools and dealer training labs.
 >>>> Circle Reader Service No. 15 <<<<





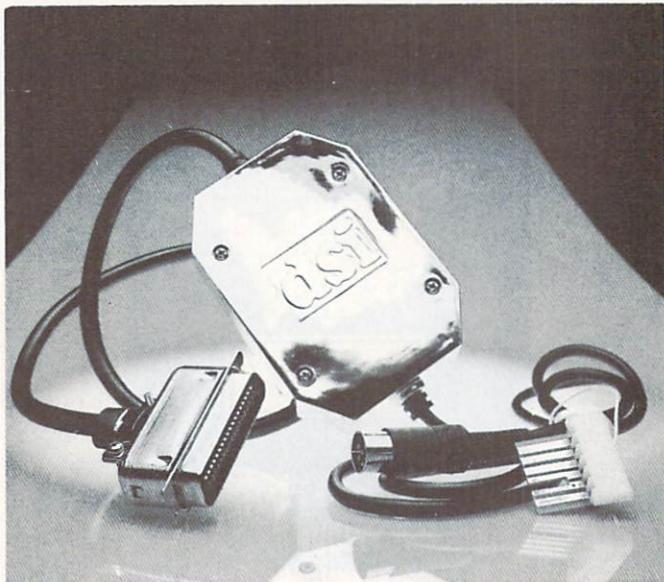
Microshare MCS64-8

Comspec

\$ 995.00

for: C64 C128 CP/M

Allows up to 8 users to share disk drives and/or printers. Works with all C64/VIC-20/C128 equipment. Built-in IEEE and VIC/64 serial ports. 100% hardware interfaced, software transparent and no special commands required. Built-in 14k print buffer and disk drive priority.



PPI with Graphics Buffer

Data Share

\$ 49.95

for: C64 C128

True Commodore graphics, expanded graphic characters and alphanumeric (reversed for both also), condensed alpha-numerics, total commodore emulation, no dip switches, fully shielded, graphics buffer and epson compatible.

>>>> Circle Reader Service No. 32 <<<<

Microspooler

Consolink

\$ 119

Three printer data buffers of different types and prices ranging from \$139.95 to \$595.

Printmaster /+6

Manitronix

\$ 99.95

for: C64

Printer interface with graphics.

Printmaster /S

Manitronix

\$ 119.95

for: C64

An advanced RS232 printer interface which connects to the C64 serial port. Selectable 300, 1200, 2400 baud, plus parity, word, and stop bits. Supports CBM graphics on all popular printers.

PSA/GPC

Peripherals System of America

\$ 59.95

for: C64 C128

Universal graphic parallel printer interface that is software configurable. 8K buffer and a hi-res ML screen dump are included.

Reduce System

Jance Assoc.

\$ 195.00 Disk or Tape

for: C64

Reduction of electrical demand using your C64 with this system. Keeps track of time, date, day of week, month and year. Your use of energy is carefully scheduled to maximize economic use and minimize cost.

Shuttle Communicator

The Microperipheral Corp.

\$ 69.95 Diskette

for: C64

Allows the computer to receive information from NDN Softcasts (radio broadcasts) at up to 4800 baud. Terminal software included.

Super Graphix

Xetec

\$ 99.95

for: C64 C128 CP/M

Buffered graphics interface with: 8k buffer / 10 print modes / 3 internal screen dumps / reset button / fonts (correspondence font resident, room for 2 additional fonts) / corrected aspect ratios for most printers external DIP switches / internal fonts support super-script, sub-script, underlining, bold-face, and nine different pitches.

T-Card

Tecmar

\$ 400.00

for: AMIGA

A multi-functional expansion card with up to 1M byte of memory. Features a serial port, clock/calendar with battery backup, hard disk interface, parallel printer port and additional power supply.

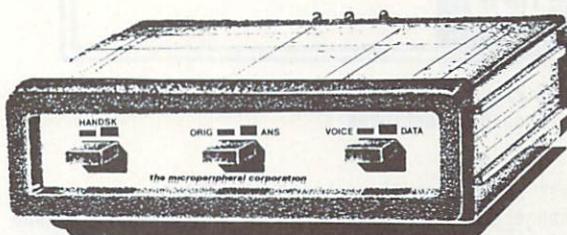
U-Print model C

Digital Devices

\$ 89.95

for: C64

universal printer interface that allows standard centronics parallel printers to be connected to the C64, with graphics capabilities and all necessary hardware included.



TELECOMPUTING (HARDWARE)



The union of phones and computers has the potential to change the way we work and live from now on.

1660 Modem/300

Commodore

\$ 89.95

Diskette

*****+

300 baud, auto answer/dial modem with software that includes a save buffer, up/down loading, function keys, save parameters, 10 different phone number entries, etc. Works with C64, SX-64, as well as the 16 and Plus/4. Includes all the necessary cables, one free hour on and subscription to CompuServe.
(-Staff)

1600 VicModem

Commodore

\$ 49.95

Diskette

An economical 300 baud modem with software and direct connect, meaning the handset cord plugs directly into it and you dial on your phone (i.e. no handset-dial or 'trimline' phones).
(-Staff)

1650 Auto-Modem

Commodore

\$ 89.95

Diskette

A 300 baud, auto-answer, auto-dial modem. Terminal software (included) allows setting of parameters (parity, duplex, etc.) however it has no save-buffer or up/down loading capabilities. Also, don't plan to use this with your SX-64, since it's wider than the user port that it plugs into and the power-cord prevents this use (3rd party interfaces are available for this problem).
(-B.D.)

AutoPrint

The Microperipheral Corp.

\$ 69.95 Diskette

for: C64 C128

Auto dial/answer 300 baud direct connect modem with internal parallel printer interface. Full duplex in originate or answer, half duplex software selectable. Compatable with most terminal software (Vidtex, VIP, SuperTerm, Smart64) and connects thru the user port. Handshaking feature allows transmission to be suspended until printer is capable of accepting more data.

Mitey-Mo

Computer Devices Int'l.

\$ 119.95 Diskette

for: C64

300 baud, auto answer/dial modem with programmable function keys, up/down loading, and more.

MOD300C

Peripherals System of America

\$ 59.95 Diskette

for: C64

300 baud modem with auto answer/dial, originate/answer switch, and includes their B-Term program on disk.

MPP-1064 Modem

MicroBits Peripherals

\$ 94.95 Diskette

for: C64

Complete telecommunications package including 300 baud auto answer/dial modem (direct connect) and V.I.P. software.

T-Modem

Tecmar

\$ 600.00

for: AMIGA

A Hayes compatible modem with selectable 300, 1200, and 2400 bauds. Provides touch tone decoding, off hook detection and interfaces to audio circuits within the AMIGA. Modem fits neatly under a standard phone.



Analog Interface Board

Computer Continuum

\$ 220.00

for: C64

Fast analog interface board with 8 bits resolution, 8 channels A/D, 8 channels D/A. Digital oscilloscope and FFT software package available with triggering dual channel, time and frequency domain averaging, printer utilities, 256 points sampling at up to 73000 Hz. \$85.00

COMMclock /AB

Genesis Computers

\$ 69.95

for: C64

Real time clock/calendar with lithium battery backup. Also includes autoboot feature which allows for any program to automatically boot and run on power up. Autoboot time delay is switch selectable and will load from disk or tape. Clock is crystal controlled for accuracy. Battery keeps clock running for up to 9 months on power down.

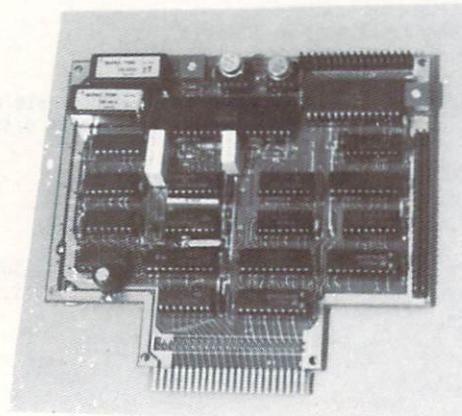
COMsense

Genesis Computers

\$ 69.95

for: C64

Real world input device which plugs into the joystick port and provides 4 simple open/close contact inputs and 2 analog to digital inputs. A to D probes are driven by +5 volts on board and inputs are fused to protect the computer.



Data-1

CGRS Microtech

\$ 279.00

for: C64

Data acquisition and control board that utilizes the intersil or maxim 7109 12 bit a/d converter - 16 channels of analog input - real clock with battery backup. 12 bit d/a and 12 ttl output bits along with driver software. The a/d will allow a maximum of 30 conversions per sec.

Diadacs 1 (fast)

CGRS Microtech

\$ 325.00

for: C64

Same as Diadacs 1, but has on-board ROM space and 100-microsecond conversion.

Diadacs 1 (mini)

CGRS Microtech

\$ 99.95

for: C64

8-bit / 8-channel version of Diadacs 1. 12 digital outputs, 12 digital inputs.

Diadacs 1

CGRS Microtech

\$ 279.00

for: C64

12-bit A/D converter: 30 conversion/sec. / 0-10 volt input / controlled from BASIC or M.L. 12-bit D/A converter: 0-10 volt output. CMOS real-time clock-calendar w/ battery backup / 12 ttl digital inputs for monitoring switches, relays, alarms, etc. 10 digital outputs for controlling relays, digital displays, alarms, etc. Includes user manual and software driver.

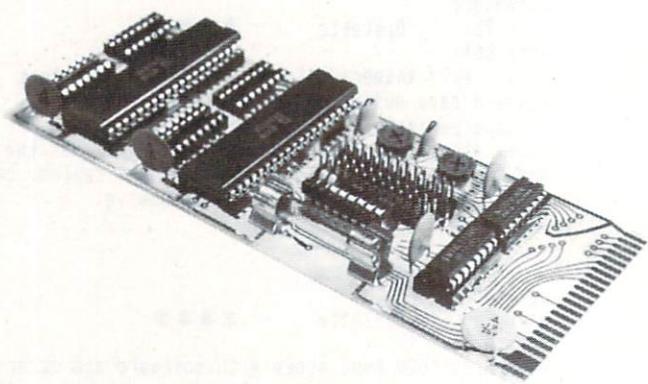
MiniData-1

CGRS Microtech

\$ 99.00

for: C64

8 bit, 8 channel a/d converter - contains the same real time clock as the 'Data-1' and has 12 digital outputs (ttl), 12 digital inputs (ttl) and space on board for 2 - 8 bit d/a converters.



Model 64IF22

Schnedler Systems

\$ 169.00

for: C64

Dual 6522 Versatile Interface Adapter Board for general purpose control interface. Each board supports two VIAs properly interfaced to the computer via the cartridge expansion port. Each provides four 8-bit ports, for a total of 32 i/o lines, and 8 control or handshake lines. Four boards can be daisy-chained from one computer to give 16 ports. Extensive documentation.

Proto-64 (6.5x4.5)

Boreas Products
\$ 15.95
for: C64

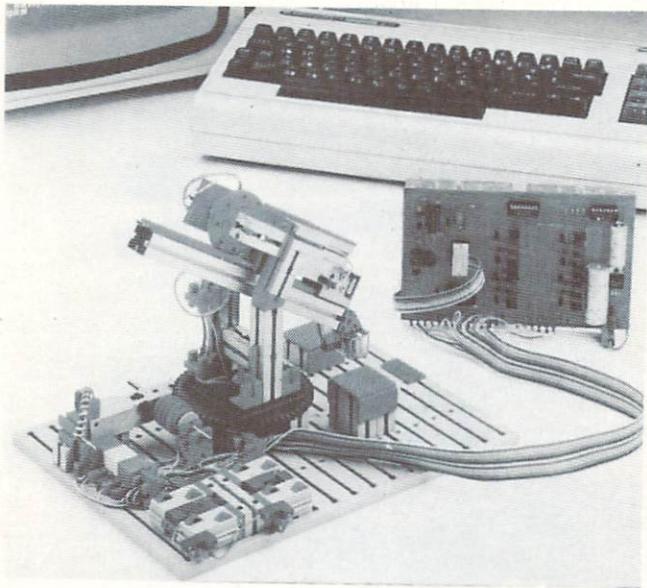
General purpose prototyping board for the C64. 44 contact gold-plated edge connector / pad per hole / plated thru holes / .100 inch hole spacing (vert) & .300 inch hole spacing (horz) / plugs into the expansion port. A 4-1/2 inch by 4 inch version is also available for \$12.95.

>>>> Circle Reader Service No. 33 <<<<

QuikData-1

CGRS Microtech
\$ 325.00
for: C64

Has most of the same features as the 'data-1', however the a/d is the national ADC 1205 which has a 100 microsec conversion time, this will allow approximately 6000 conversions per second. It also contains on board ROM space for various ROMs.



Robotics Automat Kit

fischer america
\$ 199.00 Diskette
for: C64 C128

Robotics construction kit includes interface and software to build 10 different robots (or design your own.) Simulates real industrial arms, machining centers, plotters, sorters, digitizers & more with accuracy of +/-1mm. A must-have for every school! Among the top 10 products ever designed for the C64. May be expanded with other FischerTechnik kits.

(-B.D.) See review, Issue #7

>>>> Circle Reader Service No. 35 <<<<

Viadas-1

CGRS Microtech
\$ 350.00 Diskette
for: C64

Software to run a small process control - includes the following features: curve fit generator (allows the operator to enter break points for sensin devices), alarm summary with descriptors and output control set points.

VIController

Genesis Computers
\$ 69.95 Diskette
for: C64

BSR X-10 line carrier remote controller. Can address all 256 locations and execute all standard BSR commands. Complete with six easy to use scheduling programs for daily and weekly control operations. Can be used with COMclock and COMsense devices to create a complete home control system.

MASS

STORAGE



When you need to keep information past the time you flip off the power switch.

SFD-1001 Disk Drive

Commodore
\$ 199.95

Expand your system to one megabyte with this double-sided disk drive with fast and reliable access. Currently available only from Progressive Peripherals and Protecto Enterprises. Requires an IEEE interface. (-Staff)

MSD Dual Disk Drive

Micro Systems Development
\$ 695.00
for: C64

A dependable dual drive that can be configured as either a dual drive or two single drives. IEEE interface at additional cost. 98% compatibility of commercial software with serial set-up, while the parallel set-up increases speed, it decreases compatibility by about one half.

(-B.D.) See review, Issue #4

MSD Single Disk Drive

Micro Systems Development
\$ 399.00
for: C64

Has a high degree of compatibility with 1541 disk software. Software reconfigurable operating system with serial or IEEE interfaces (IEEE interface at extra cost).

(-B.D.)

Indus GT

Indus Systems
\$ 399.95 Diskette
for: C64

Sleek, compact, quiet disk drive with separate power supply, no vents, and transparent door to keep out dust, front mount switches (drive number, write protect, display of track or error), fast load, fast copy, wedge and more.

(-B.D.) See review, Issue #5

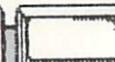
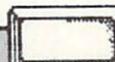
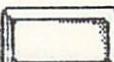
Microwafer

Entrep
\$ 139.95
for: C64

**

170k microwafer drive (\$84.95), word manager word processor (\$34.95), plan manager spreadsheet (\$34.95), speed file manager (\$69.95) available separately or packaged together for \$139.95. Cumbersome to use, and incompatible with most commercial software. A disk drive is a much wiser investment.

(-M.B.)





CSI ST10C 10M Hard Disk Drive

Computer Specialties

\$ 1595.00

*

for: C64 C128

10 megabyte hard disk for all Commodore computers. At speeds approaching twice that of the 1541, with no provisions for managing its huge directory, close to a week needed to back up a full disk, and total disregard for shock-mounting, purchasers of this overpriced behemoth have our sympathy.

(-B.D.) See review, Issue #9

>>>> Circle Reader Service No. 16 <<<<

Enhancer 2000

Comtel Group

\$ 199.95

Diskette

for: C64

High quality 'smart' and 1/2 height disk drive compatible with the 1541.

Microwafer Teacher

Entrepo

\$ 129.95

for: C64

170k microwafer drive (\$84.95) with programs for general math, spelling tutor, and typing tutor.

Mirage

World Disk Drives

\$ 249.95

for: C64

Fully Commodore compatible disk drive system. Includes: built-in parallel printer interface (with CBM graphics and CBM ASCII to standard ASCII), system reset button, Dip switch selectables, Apple II(c) compatible, fast loader, copy programs and more.

>>>> Circle Reader Service No. 30 <<<<

PSA/CS-1

Peripherals System of America

\$ 239.99

Diskette

for: C64

Commodore single disk drive, formats in 16 sec., reset button, switchable device number, and two popular copy utilities.

The Clone Dual Disk Drive

HBH Sales

\$ 499.00

Diskette

for: C64

Dual drive compatible with 1541 disks, incorporates a durable metal casing which has a low heat retention and doubles as a monitor stand.

GADGETS CABLES AND ETC.



Tons of neat stuff you can plug into your computer. Now you can control the world!

B.I. 80

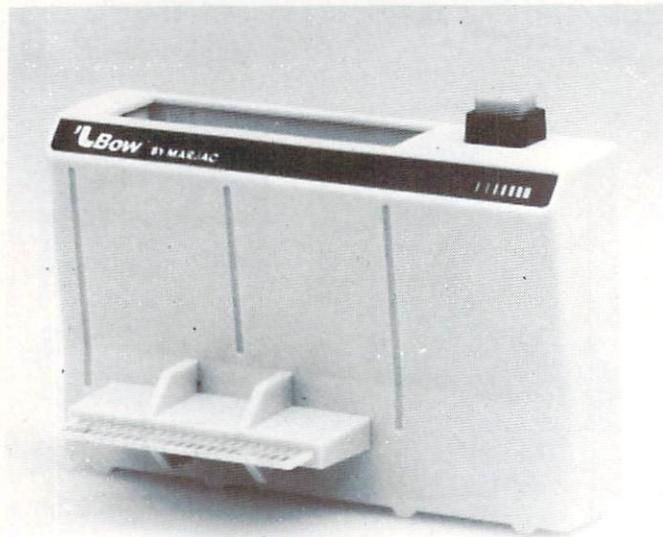
Batteries Included

\$ 199.95

for: C64

Hardware 80-columns for the C64 with BASIC 4.0 commands. A high-quality, clear 80 columns on a monochrome monitor. Reads 'ok' on a Commodore color monitor too.

(-B.D.)



LBow

T.I.E. Limited

\$ 24.95

for: C64

Well-made cartridge holder incorporates a reset button and program listing for recovering last program used. Provides one vertical and one normal (horizontal) cartridge port extending from the 64's single port. Less stress on cartridge and C64 board.

(-B.D.)

>>>> Circle Reader Service No. 1 <<<<

Cardboard 5

Cardco

\$ 69.95

for: C64

Attractive, fuse-protected, 5-slot expansion board for the 64. Each slot has 4 LED status indicators and two switches to directly control various memory and access functions. Two master switches and indicators allow override at any time. Can be used to simply eliminate constant insertion and removal of cartridges.

(-B.D.)

Smartslot

Progressive Peripherals
\$ 89.95 ***
for: C64

Fuse protected hard switched or software selected
expansion slots (4) and reset switch.
(-B.D.)

Video Pak 80

Data 20
\$ 179.95 Diskette ***
for: C64

40 columns in color and 80 columns with a monochrome
monitor. Includes terminal and screen-print software.
(-B.D.)

Color-80

Richvale Telecommunications
\$ 39.95 Diskette ***
for: C64

80 columns from software. Uses no basic RAM,
compatable with their C64-Link.
(-B.D.)

VID (video improvement device)

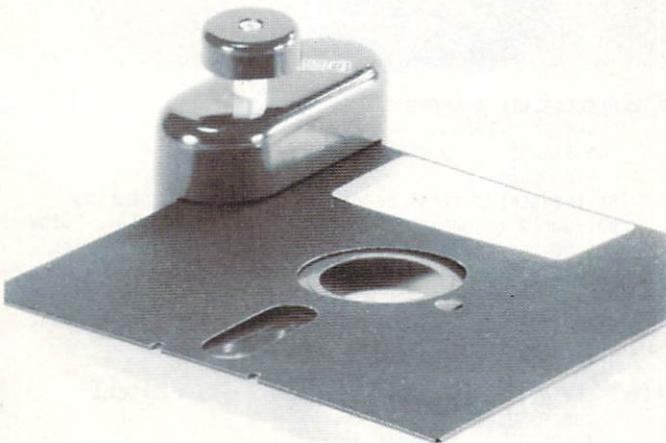
Computer Accessories
\$ 39.95 ***
for: C64

Plug this little widget into your 5-pin video port and
hook your t.v. to the usual rf plug. Visible
improvement of picture quality on many t.v.'s. See
'Double-Take' in the premiere issue.
(-B.D.)

Colored computer paper etc.

Papertail
\$:na

Assorted computer paper products in seven brilliant
colors. Fanfold paper / envelopes / clean-perf.
Sample pack (200 sheets of any four colors) is \$24.95.

**Disk Doubler**

T.I.E. Limited
\$ 12.95
for: C64

Allows 5&1/4 inch single-sided disks to be used on
both sides by cutting a precisely located square notch
on the other side of the disk. Features a smooth
enamored finish and a high leverage round push button
handle for easy use and handling.

>>>> Circle Reader Service No. 19 <<<<

Multiple Printer Connector

Progressive Peripherals
\$ 89.95
for: C64

Multiple printer connect box for serial printers or
interfaces, up to 4 printers for use with the
Supershipper to avoid loading and unloading different
forms.

Panic Button

Microvations

\$ 19.95
for: C64

Reset switch with a 3 foot cable and documentation on
how to recover BASIC programs in memory.

PDI Diset

Public Domain
\$ 5.00
for: C64

Reset button that plugs into an empty serial port.

PDI Serial Cables

Public Domain
\$ 10.00
for: C64

Ten foot fully shielded serial bus cable (15 foot
available for \$15).

Single Slot Expansion Board

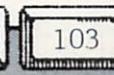
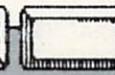
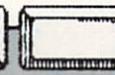
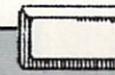
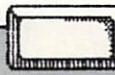
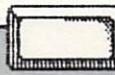
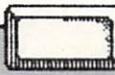
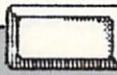
CSM Software
\$ 24.95
for: C64

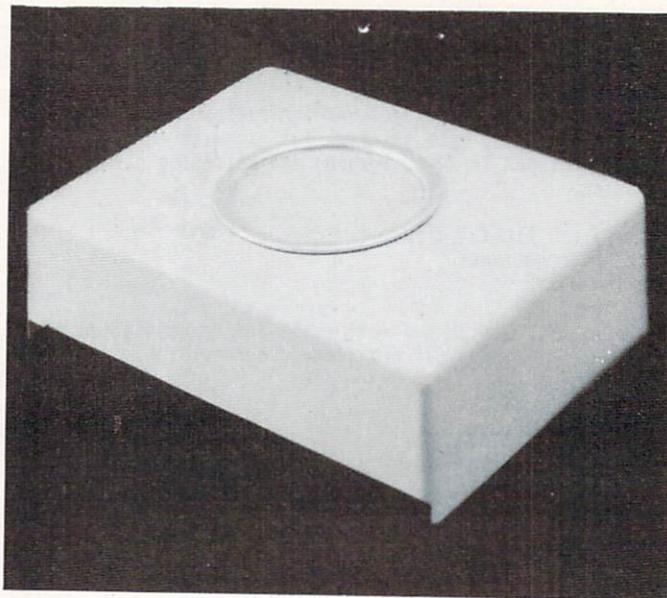
Fully switched, including game, exrom, enable and
power switches. LED indicators for type of cartridge.
Includes re-set button. It is compact, approximately
the same size as a cartridge.

**Underware Ribbon**

Diversions
\$ 14.95

Turns your computer into an instant T-shirt maker.
Print any image on plain paper using this special
ribbon, then iron that image onto a shirt. Each
ribbon produces 30-100 transfers that are permanent
and washable. For NEC8023, C.itoth prouwriter, Okidata
80 & 90, Star Gemini 10x & 15x.





Uni-Kool model C-100

Uni-Kool
\$ 39.95
for: C64

Disk drive cooler for Commodore's 1541 and SFD-1001 drives. Special filter, 110v, 60 cycle, operates at 8 db and moves 15 cubic feet per minute of air thru the drive's top vents. 2.25 inches high.

>>>> Circle Reader Service No. 42 <<<<

SENSORY PERIPHERALS



Let your computer see, hear, feel, and take in other input from the outside world.

MicronEye Camera

Micron Technology
\$ 295.00 Diskette ***
for: C64

Solid state imaging device that connects to the expansion port of the C64, software included allows display of images to screen. Also, grey-scale, software controlled shutter, frame store and recall. A second model (\$485 list) is also available with the difference being in the maximum distance the device may be from the computer.

(-B.D.) See review, Issue #2

S. A. M.

Don't Ask Computer Software
\$ 34.95 Diskette ***
for: C64

SAM the Software Activated Mouth has natural (well...) sounding speech, variable pitch, speed, inflection, english text-to-speech conversions, easy to use in programs.

(-B.D.)

Votrax Speech System

Votrax
\$ 395.00 Diskette ***
for: C64

255 programmable frequencies for sound effects, 16 amplitudes, simultaneous speech and either music or sound effects, 8-octave 3-voice music, serial and parallel interfaces included. Also, built-in programmable clock, exceptions tables, programmable rate and inflection, 3500 character buffer and more!

(-B.D.)

64-Talker

Talktronics
\$ 89.00 Diskette
for: C64

Plug-in speech synthesizer with 2 voices and controlled thru simple BASIC or machine language commands.



Computereyes

Digital Vision
\$ 129.95 Diskette
for: C64

The industries first economical means of capturing real-world images on the C64's high res display. Slow scan device that connects between any standard video source and the 64's user i/o port, and a b/w image can then be acquired under simple software control. Enhancements are available to support Flexidraw, Print Shop, Doodle, Koala Pad and Newsroom.

Hard Wire Security/Control

Jance Assoc.
\$ 195.00 Disk or Tape
for: C64

Security control system run by your C64. Includes alarm bell, wire, switches, auto phone dialer, and everything else that's necessary. Compatable with BSR modules for control of lights and appliances. Wireless version is also available for \$349.



ProVoice

Genesis Computers
\$ 99.95 ROM
for: C64

Speech synthesizer for the C64, contains ROM based text to speech conversion, 12 new BASIC commands (speak, help, etc.). Screen echo mode allows BASIC programs to talk without any modification. Built-in speaker and amplifier, plugs into expansion port so it may be used with a modem to create a 'talking terminal'.

Video Digitizer 64

Print Technik USA
\$ 198.00 Diskette
for: C64

Video digitizer for the C64 that will also do full color printing on any color printer. Includes alarm program for comparing 2 pictures (excellent for counterfeit examiners), Videoshow for slide projection, View program for Koala formats, light pen option, and more.

Voicebox

Alien Group
\$ 129.95 Diskette
for: C64

'World's only singing speech synthesizer', unlimited vocabulary, natural sounding, inflection control, text-to-speech & phoneme input. Plugs into user port, includes a built-in speaker, volume & pitch controls. Works with 'When I'm 64' music software.

INPUT DEVICES

Talk to your computer
through a device
other than your
keyboard.

Flexidraw Light Pen

Inkwell
\$ 149.95 Diskette ****
for: C64

Professional grade light pen (with single pixel resolution) and 'Penware' drawing software. This is not a toy (although it's lots of fun and easy to use). Includes a sophisticated machine language drafting software, and separate BASIC routines for programmable graphics, sprite editor, templates, and more!

(-B.D.) See review, Issue #2

Koala Pad

Koala Technologies
\$ 99.95 Disk or ROM ****
for: C64

A medium-sized input pad that responds to finger or stylus pressure. Comes with 'Koala Painter' color drawing software, uses the C64's 16 colors plus 136 mixed-colors. Features 'oops' mistake correction, sophisticated block moves, quad-symmetry mirror mode, and more! This is one of the best C64 products around!

(-B.D.) See review, Issue #2

Command Control Trackball

WICO
\$ 49.95 ****
for: C64 C128

Responsive game or graphic control with 360 degree movement anywhere on the screen and fingertip sensitivity.

(-M.B.)

Tech-Sketch LP-10s Light Pen

Tech-Sketch
\$ 39.95 ****
for: C64

This low-cost light pen does a nice job with Tech-Sketch's version of the 'Micro-Illustrator'. (-B.D.)

Super Sketch

Personal Peripherals
\$ 59.95 ROM ****
for: C64

A different approach to graphics input that uses a stylus arm attached to a plastic 'clip-board'. Unfortunately, while this arrangement has definite appeal, there is too much mechanical play in the stylus arm to take advantage of the good graphics capabilities of the 'Graphics Master' software (included).

(-B.D.)

Edumate Light Pen

Programmer's Institute
\$ 29.95 ****
for: C64

This entry-level pen is compatible with Programmer's Institute's children's educational software and their 'Peripheral Vision' graphics software.

(-B.D.)

Koala Light Pen

Koala Technologies
\$ 99.95 Diskette **
for: C64

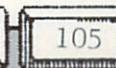
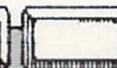
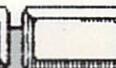
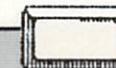
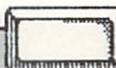
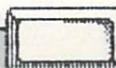
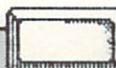
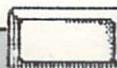
Light pen with software for drawing freehand using different brushes and colors and geometric shapes all on your screen. In summary stay away from this product...you will find their Koala Pad product much more satisfying and a good value at prevailing prices.

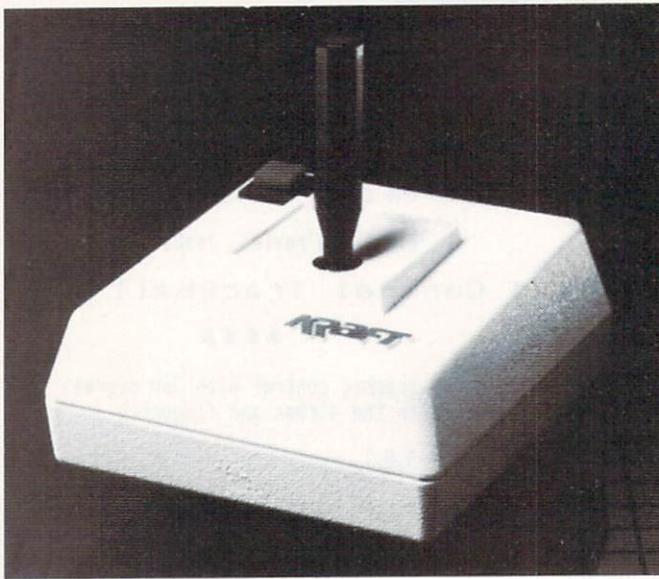
(-B.D.) See review, Issue #5

Cardkey/1

Cardco
\$ 39.95 Tape
for: C64

Has 16 keys and plugs into the joystick port or can be piggy-backed with keyboard connector, eliminating the need for driver software and avoiding software compatibility problems.





Commodore Joystick

Kraft
\$ 12.95
for: C64

Color matched to the C64. Includes 'Mazemaster' selector for 4-way or 8-way operation, positive stick mechanism, rapid fire button, and extra long 8 foot cord. Also available in 'Switch-Hitter' model for left and right hand play for \$14.95.

Flexikey System

Gosub of Slidell
\$ 69.95 Diskette
for: C64

A 20 key numeric pad with BASIC driver software and each key may be defined to have 3 values.

Muppet Learning Keys

Koala Technologies
\$ 79.95 Diskette
for: C64

Touch tablet device which makes using the computer easy for the littlest kids, and makes learning numbers and letters and colors much more fun. For ages 3 and up.

Numeric Keypad

CSM Software
\$ 64.95
for: C64

No software required and 100% compatible with all software. Easily installed, full travel keys with numeric, decimal point, shift, return, comma, inst/del, and cursor keys. The shift key can be used with the other keys to produce others like: \$, %, (,). Also has all arithmetic keys.

QuickShot controllers

Spectravideo
\$ 19.95

Various joysticks of different styles most all of which have suction cups for stability. Also, now available is the 'Joycard' (combination joystick and track ball) with all 8 directions at the touch of a finger on the touch-sensitive pad.

Space Pen

Soniture
\$ 149.95 Diskette
for: C64

A 3-D input device that lets you send ultrasonic signals to the computer. Compatible with existing graphics packages in 2-D only. Including sampler software.



Voice Master

Covox
\$ 89.95 Diskette
for: C64 C128

Digitizes your speech for playback under computer control. Recognizes your spoken words as commands. Both speech playback and recognition can be combined into one user BASIC or m.l. programs. Also, measures speech fundamental pitch and produces music locked to the singer's voice. It can store a song which can be edited and even printed out as a musical score.

WICO Joysticks

WICO
\$ 19.95
for: C64 C128

Four models (with prices ranging from \$17.95 to \$32.95): The Boss, Super Three Way, Bat Handle, and Grip Handle.



1702 Color Monitor

Commodore
\$ 299.95
for: C64

A fine monitor which improves significantly over TV and even composite video monitors. Make sure you take advantage of the hi-performance back-panel inputs. (-B.D.)

PRINTERS

INFO

Eventually, you'll
need a hard copy.
Printers come in all
sizes, prices, and
formats.

C. Itoh 8510SC

C.Itoh
\$ 895.00
for: C64

This is the color edition of the 180 cps C.Itoh
(see-ee-toe) 8510S. Four color ribbon cartridge can
produce sixteen solid colors. Push-tractor fed.
(-B.D.)

Cosmic Printer/Plotter

Peripherals System of America
\$ 149.95
for: C64
Centronics parallel, 4 colors, 40 and 80 character
mode selectable.

GP-700A

Seikosha
\$ 399.00
Graphic color printer.

Okimate 10

Okidata
\$ 239.00
for: C64

40 shades of color possible from a 4-color ribbon
cartridge. Light-weight and compact. Ribbons are
good for one pass only so printing can get rather
expensive (ribbons are about \$9 each and are good for
about 10 pages of output). The color quality is good
(from the samples we've seen) and printing can be done
on acetate for direct transparencies.

Cardco LQ/1

Cardco
\$ 599.95
for: C64
A 14 cps daisy wheel printer that comes fully
interfaced for the C64 as well as standard parallel,
supports underlining, bold & shadow print, true
proportional spacing. Software supplied for
typewriter emulation and can also be used as a two
color dot graphic printer for custom letter heads and
logos.

C. Itoh 8510S

C.Itoh
\$ 794.00
for: C64

180 cps draft mode, 120 cps near-letter quality mode
(the nlq proportional character set looks very
convincing), tractor/friction/roll paper feeds. Does
not handle shipping labels with the same reliability
as some due to the 'push-tractor' instead of a
pull-tractor, nonetheless, a superior printer.
(-B.D.)

Star SG-10/15

Star Micronics
\$ 299.00

Ten inch printer (15 inch lists for \$399) that prints
at 120 cps and 30 cps in near letter quality mode. Has
2K buffer (16K on the 15). Also features an IBM mode
(ask me if I care) and has easier to reach side-mounted
DIP switches. Excellent documentation.

Epson FX-80

Epson America
\$ 599.95
for: C64

160 cps, widely-supported popular printer with various
fonts and pitches, dot-graphics, downloadable fonts,
single-sheet and pin-fed paper handling.
(-B.D.)

Mannesmann Tally Spirit-80

Mannesmann Tally
\$ 399.00
for: C64

Only 80 cps, but compact and quiet.
(-B.D.)

Star SR-10/15

Star Micronics
\$ 799.00

200 cps, 50 cps in near letter quality mode and 2K
buffer (16K on the 15). The only thing I don't like
about the SR series is the 'push' type tractor which
has replaced the more reliable 'pull' type found on
other models. The push tractor leads to occasional
feed problems with labels and heavier stock like index
card stock. Everything else about the printer is first
class.
(-B.D.)

Epson LQ-1500

Epson America
\$:na

From 200 cps in draft mode to letter quality.

Hermes Printer

Hermes Products
\$:na

Multi-mode printer with 120 cps NLQ and 480 cps in
draft mode.

Juki 5510

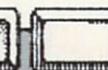
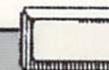
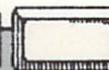
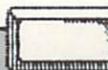
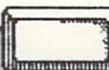
Juki
\$ 500.00

9 inch platen printer with 3K buffer (expandable to
15K), 30 cps NLQ, 180 cps draft, bidirectional and
logic seeking.

SP-1000A

Seikosha
\$ 299.00

High quality printer with 100 cps standard and 24 cps
NLQ.



MISCELLANEOUS HARDWARE

INFO

This is stuff we
couldn't identify,
but it all has some-
thing to do with
computing.

Stack Light Rifle

Romaro Enterprises
\$ 59.95 Diskette ***-
for: C64

This is light-sensitive input device in the shape of a rifle (also breaks down to pistol) which connects to your C64 by a 12-foot cable. Most of the games on the included disk were not too great, some were very boring after a short while. All only scan for the vertical position of the gun when fired. The gun itself however has a nice feel for a toy gun.
(-Staff)

1541 Super ROM

MegaSoft
\$ 39.95
for: C64

Claims: fast load, save, verify, scratch, & validate.
10 second format. Head rattle disabled. Two to eight
times speed increase.

801 Upgrade Chip

Kobetek Systems
\$ 25.00
for: C64

Upgrade character ROM for Commodore's MPS-801 printer.
Provides lower case descenders and a generally more
pleasing appearance of all characters - letters are
more balanced. Includes complete instructions, and
installs in 10 minutes.

Acco Printer Stand

Acco
\$:na

Space saving printer stand, adjusts to hold 80 or 132
column printers and comes with or without forms feeder
and printout tray.

B.O.S.

Peripherals System of America
\$ 49.95 Diskette
for: C64

Best Operating System, for the C64 with drive. Auto
boot, fast load(twice normal speed), rest button,
utilities, editor, ML monitor and more.

Compu-Case

Computer Case
\$:na
for: C64

C64 and accessories carrying cases of various size
(prices range from \$109 to \$229).

Compubench

Richardson & Associates
\$:na

Solid oak monitor/printer stands of different heights
and widths with prices from \$65 to \$75.

CPS-10 power supply

HBH Sales

\$ 59.95

for: C64

Replacement power supply for your C64, includes two
100 watt outlets, surge and spike protection.

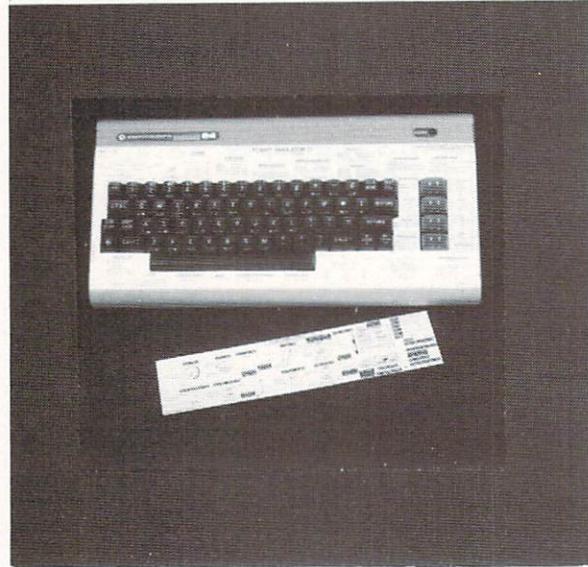
Hi-Rise

Unique Wood Products

\$ 39.95

for: C64

Solid oak combination monitor, disc and printer stand.



LeRoy's Cheatsheet Overlays

Cheatsheet Products

\$ 3.95

for: C64

Plastic laminated keyboard overlays covering many of
the popular word processors, spreadsheets, data bases,
printers, languages and utilities, for the C64 and
VIC-20.

Media Mate & Disk Bank

Amaray

\$:na

Diskette storage cases of varying size (for 5-1/4 and
3 1/2 inch disks), capacity, and with or without lock.
List prices range from \$14.95 to 29.95.

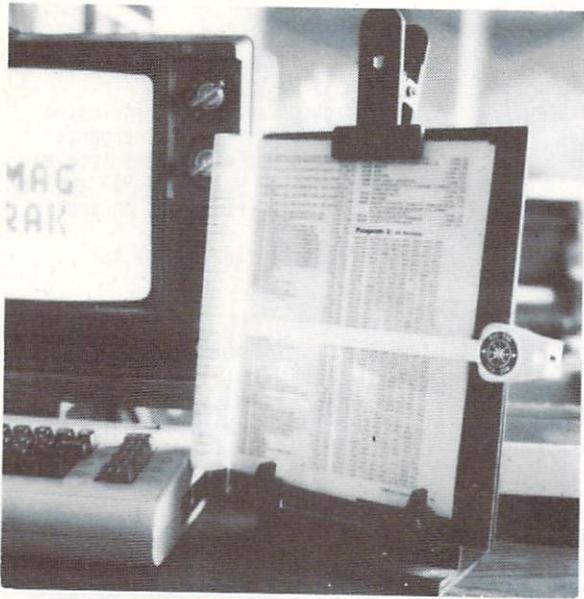
MicroStuffer Printer Buffer

MicroBits Peripherals

\$ 149.95

for: C64

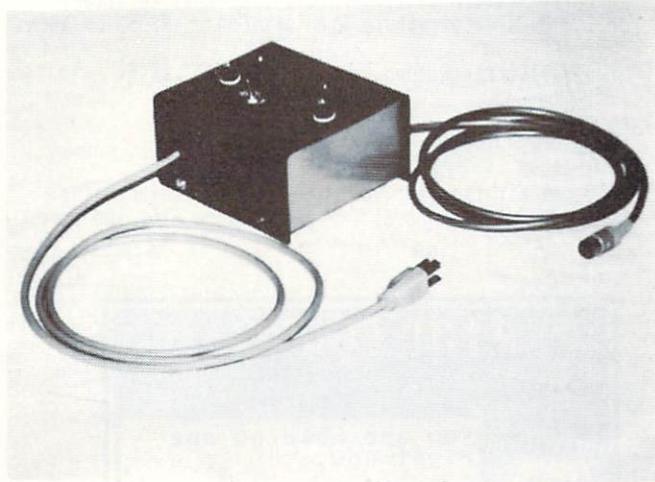
External 64K printer buffer that will accept parallel
input at up to 8,000 cps. Can provide serial output
at wide range of baud rates with the addition of the
MPP-1156 serial adaptor. One button repeat, LED
indicators, reset button and accepts data from any
standard centronics parallel type interface.



Mag-Rak

R & L Products
\$ 34.95

9x11 inch copy-holder designed primarily to page-display with line-guide or display an intact computer magazine containing program listings. Also accommodates single sheets, paperback and hardback books.



Power Up!

C&B Enterprises
\$ 49.95
for: C64

A heavy duty power supply for the C64. Has a 3 amp T0-3 regulator with heat sink. The pri. and sec. is fused and 'transient protection' is provided on 5 levels. It is switched, LED indicator, attractive metal housing, repairable (schematic included), 12 month warranty and USCUG approved.

Rolltop Disk File

MicroComputer Accessories
\$ 35.95

Stores 120 - 5&1/4 inch disks, includes 10 dividers and color coded labels, also available in several colors and with or without locks.

Seiko PC Datagraph

Seiko
\$ 199
for: C64

Portable 2K RAM computer terminal for your wrist with 12 distinct data files for travel schedules, appointment times, key dates, foreign word translations and more. Alarm alerts you up to 1 year in advance. Hooks directly to the computers RS232 port.

Spartan Apple II+ Emulator

Mimic Systems
\$ 599.00
for: C64

This product gets my vote for the longest promised without delivery (not even a review unit.) If it works, this big box will turn your C64 into an Apple II All I can say is that if you want to run Apple software then why on earth would you choose to tie up your C64 when you can go out and pick up a new Apple (100% compatibility guaranteed) for about the same price ?? This one just does not compute!

(-B.D.)

Spikeate

Control Corp of America
\$ 49.95
Diskette
for: C64

Power line spike and surge protector that also centralizes computer power control.

The Promptr

Transierra Technology
\$ 5.95
for: C64

Package including 10 plastic function key overlays and 15 label sets, so you can makeup each overlay for each piece of software you own.

Tilt 'n Turn CRT Stand

MicroComputer Accessories
\$ 29.95

12 x 12 inch platform, made of high impact styrene in a putty finish.

Underware Color Pens

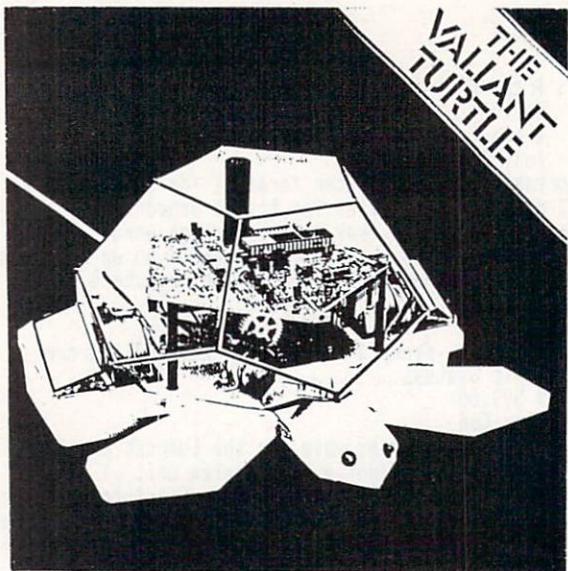
Diversions
\$ 14.95

Set of 5 colors (red, blue, green, orange, yellow) that are used to add color to the paper transfers (made with the 'Underware Ribbon') prior to ironing, results are permanent and washable.

Underware Coloring Kit

Diversions
\$ 19.95

Consists of 20 sheets of special transfer paper and a set of 5 color pens. The paper has a special kind of ink and is designed to be used for printers for which 'Underware Ribbons' are not available.



Valiant Turtle

Kobetek Systems
\$ 365.00 Diskette
for: C64

Remote controlled robot by infra-red transmitter. Includes software driver for LOGO compatibility (English or French). Powered by rechargeable ni-cad batteries, carries pen which can be raised or lowered to trace all movements. Draws smooth circle and arcs. Package includes turtle, batteries, infra-red transmitter, power adapter, pen and manuals.

>>>> Circle Reader Service No. 43 <<<<

INFORMATION SERVICES

INFO

Information, data, curiosities, conversation: all can be had on the networks (for a price).

CompuServe

CompuServe
\$:na

The largest Commodore-oriented network in the world, probably because it has the Commodore Information Network, Commodore's own informational service. Memberships are \$35/yr, and \$6/hr. connect time.

(-Staff) See review, Issue #6

Dow Jones/News Retrieval

Dow Jones
\$:na

Like CompuServe (minus CIN) and business oriented service. Charges are a one-time fee of \$75 and \$0.20/min. connect time (\$12/hr).

(-Staff) See review, Issue #6

PlayNet

PlayNet
\$:na Diskette
for: C64

Has beautiful on-line graphics and sound, including games, but it's not videotex. No terminal program needed, screen displays and games are loaded from one of the 3 disks provided when you join (\$34.95) and you play others via modem. Easy to get around on and not like other networks.

(-Staff) See review, Issue #6

The Source

The Source
\$:na

A commercial network a lot like CompuServe minus the Commodore Information Network. Memberships are \$49.95 to join plus \$10/mo. service charge and \$7.75/hr. connect time.

(-Staff) See review, Issue #6

B128 User's Group

B128 Users Group
\$:na

Includes monthly newsletters, public domain software library and a bbs, all for the B128 computer.

Creed BBS

Coast Bulletin Board
\$ 49.95 Diskette
for: C64

Formerly 'Electronic Magazine BBS', this full fledged BBS with new punter download protocol. Compatible terminal program with over 40 disk files and 12 page manual. Written in 12k Basic and is easy to alter. 1 or 2 drives. Compatible with all CBM or RS232 or IEEE devices.

>>>> Circle Reader Service No. 13 <<<<

Delphi

General Videotex
\$ 49.95

Telecommunication service with E-mail, conferencing, news, travel, financial info, Commodore SIG, and more.

PERIODICALS



You are holding one right now.

Ahoy!

Ion International
\$ 2.50

Monthly publication devoted to Commodore computing. Ahoy! seems to fluctuate from issue to issue, but seems recently to be pulling ahead of Run and Compute!'s Gazette in content and style. Of the 3 'big names', I would recommend this one most.

(-B.D.)

Commodore Microcomputers

Commodore Publications

\$ 2.50

****-

Commodore's companion publication to 'Power Play' aimed at the intermediate to advanced user. Good mix of articles and reviews, well illustrated with decent photos. Reasonably good coverage of third-party products. Don't expect to read any criticism of Commodore from this gang; their paychecks are still signed in West Chester, PA.
(-B.D.)

Commodore Power/Play

Commodore Publications

\$ 2.50

****-

Bi-monthly publication by Commodore is attractive, & well put together with lots of color, photos, and a nice blend of articles, reviews, and programs for beginning to intermediate computists. Tows the company line, and avoids controversy, but consistently delivers useful information in a pleasant package.
(-B.D.)

The Midnite Gazette

Midnite Software

\$ 4.00

****-

for: C64

Jim Oldfield & Jim Strasma are the movers behind this scrappy little newsletter/magazine. Long respected as a knowledgeable & sincere journal, Midnite has recently gone from bi-monthly to monthly, and has gotten a bit skinny in the process (Aug. is only 20 pgs.). Black & white format- mostly text, sparse advertising. Reviews submitted by wide range of contributors. Good articles and editorials.
(-B.D.)

Compute!'s Gazette

Compute Publications

\$ 2.95

****+

for: C64

Slick monthly publication with coverage of Commodore's VIC20, 64, Plus/4, and newer computers. Emphasis is on type-in games and occasional utilities. Reviews are generally candy-coated but reasonably current. Well-illustrated and laid-out. Goes with the flow, avoiding controversy and originality. Features a good selection of advertising.
(-B.D.)

RUN

CW Communications

\$ 2.95

****+

for: C64 C128

This slick monthly Commodore magazine is chock-full of ads, lots of color and photos, occasional decent articles. Reviews are often out of date and, worse, not to be trusted. What can you say about a supposedly knowledgeable publication that prints shameless gushing praise for a turkey like the PLUS/4 month after month. Best features: MAGIC column, and STRASMA's 'Commodore Clinic'.
(-B.D.)

Transactor

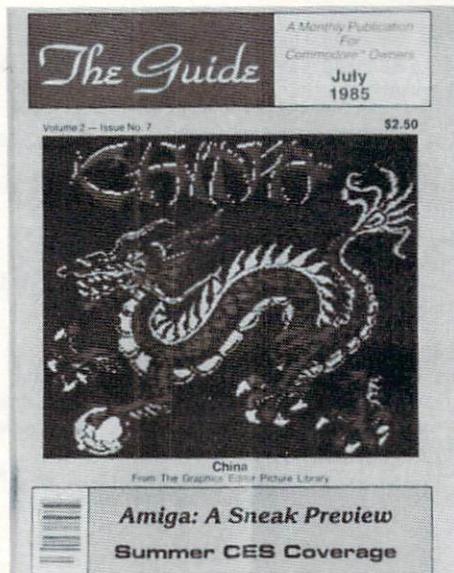
Transactor Publications

\$ 2.95

****+

for: C64

Bi-monthly Canadian publication which stresses the technical side of Commodore computing. Very few photos, few ads, and color on the cover only. If you think INFO has problems getting out on a regular basis, you obviously haven't experienced Transactor! My copies come about one every 6 months!
(-B.D.)



The Guide

The Guide

\$ 2.50

(Formerly N.W. Users' Guide) This independent monthly covers Commodore computing with sincerity, honesty, and occasional humor. Not real 'meaty' yet, but has improved steadily every issue. One year subscriptions are \$18.00.

(-B.D.)

>>> Circle Reader Service No. 40 <<<

TPUG Magazine

TPUG

\$ 2.95

for: C64

Published 10 times a year by the 'world's largest Commodore user's group'...Toronto Pet Users Group in Canada. This publication has historically been at the center of Commodore computing coverage in Canada, with a fairly technical emphasis. Still has that hacker flavor of the '70's.

(-Staff)

Compute!

Compute Publications

\$ 2.95

**

Monthly publication with Commodore, TI, Atari, Apple, IBM, and misc. coverage. Compute! has really taken a downturn since mid '85; the last few issues have been almost entirely devoid of photos, art, or useful reviews or articles. I predict this title will go down for good by the first qtr. of '86, with subscribers transferred to the superior 'Gazette'. As things stand, I won't be renewing MY subscription.
(-B.D.)

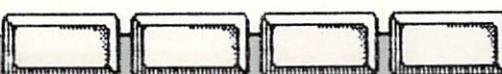
COMAL Today Newsletter

Comal Users Group

\$ 14.95

for: C64

COMAL news, tips and ready to type in programs.
\$14.95 for 6 issues and \$2 for a sample copy.



Machine Code

FS! Software
\$ 40.00

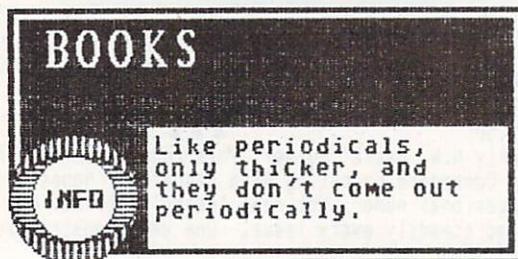
A newsletter oriented toward the person who is interested in machine (assembly) language programming. includes beginners column, quarterly programming challenge, articles of all m.l. facets, home brew electronics, robotics, 1541 programming, high speed graphics, and more. 1st issue available Fall 85. Quarterly publication. Each subs. includes a free copy of 'The Machine Shop'.

>>> Circle Reader Service No. 29 <<<

Program Protection Newsletter

CSM Software
\$ 35.00
for: C64

Each month 3-5 or more programs are covered. The protection schemes will be examined and broken down for aid in making an archival copy. This is a how and why approach to program protection with special monthly articles covering the DOS, operating system, product reviews, eeprom programming and more.



64 Programming: Hands on BASIC

Tab Books
\$ 11.95
for: C64

Paperback book with practical insight into how programs are developed, tips, and tricks used by professionals.

A Survival Guide for the 1541

Stoneridge Software
\$ 5.00
for: C64

Quick reference DOS commands, using the wedge, trouble shooting and file handling.

A.I. Projects for the C64

Tab Books
\$ 12.95
for: C64

Paperback book covering artificial intelligence.

C64 Expansion Guide

Tab Books
\$ 16.45
for: C64

Paperback book with guidelines as to what hardware accessories and add-ons are available for the C64.

C64 Interfacing Blue Book

MicroSignal Press
\$ 16.95
for: C64

This book describes 36 hardware interfacing projects for the C64. Description, schematics, theory of operation and parts lists are given for all projects.

C64 Micro Mansion

Tab Books
\$ 11.95
for: C64

Paperback book with info on making your C64 do everything from the burglar watching to turning on/off lights to making coffee.

Capt. COMAL's Graphic Primer

Comal Users Group
\$ 19.95 Diskette
for: C64

Step by step tutorial for using the COMAL language to program hi-res graphics and sprites. Disk includes all programs in the book and more.

Computer Companion for the 64

Tab Books
\$ 11.45
for: C64

Paperback book with up to date, easy to use manual that can make any programming task faster and easier.

Computer Talk

Stoneridge Software
\$ 7.50 Diskette
for: C64

A beginner's guide to telecomputing, covers: basic terms, concepts, how to choose a modem and terminal software, and how to link up with systems. (Only \$5 for book without demo disk).

E-Z Rental Manager

Fabtronics
\$ 19.95

Over 32 easy to copy forms, letters and contracts relative to any type of rental property.

Hayden Books

Hayden Books
\$ 11a
for: C64

Many titles including: C64 Programs for the Home, Programming Adventures in BASIC, C64 Illustrated, Basic C64 BASIC, Taking Care of Business with your C64 and more.

PDI Manual

Public Domain
\$ 10.00
for: C64

Written for the first 12 C64 and VIC20 collection disks.

Program Protect Manual Vol. 1

CSM Software
\$ 29.95 Diskette
for: C64

Covers the disk drive, bad blocks and tracks, modified directories, cartridges, protection schemes and much more. Covers both BASIC and machine lang. protection schemes. A complete memory map and a disk with many helpful utilities are included.

Program Protect Manual Vol. 2

CSM Software
\$ 34.95 Diskette
for: C64

A new and up to date manual covering the latest advances in program protection. Over 275 pages and a disk to help explain the concepts. Topics include: encryption & decryption, undocumented opcodes, GCR recording, custom DOS routines, advanced cartridge & eeproms, compilers, 1/2 tracks, nibble counting, extra tracks & sectors, and more.

Serious Programming for C64s

Tab Books

\$ 9.95

for: C64

A chance to learn tested and proven techniques for overcoming the C64's programming limitations.

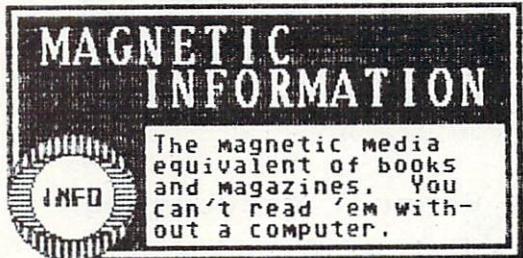
The Commodore 128 Mode

Microcomscribe

\$ 14.95

for: C128

This book addresses the C128 and 1571 drive. Learn about memory organization and operating system.



What's Really in the C=64

Schnedler Systems

\$ 29.95

for: C64

Reconstructed assembly-language source code listing of the Basic and kernal ROMs. Enables one to understand and use the 'undocumented' ROM routines, and better understand even 'official' kernal routines. Uses labels, not a mere one-line disassembly. Every routine is introduced with a statement of its purpose. Tables are full sorted out and derived, not a mere hex-dump.

COMAL Today Disks

Comal Users Group

\$ 14.95 Diskette

for: C64

Disk to match the COMAL newsletter.



How to Operate the C=64

FlipTrack Learning Systems

\$ 29.95 Tape

for: C64

An audio cassette course that teaches operation of the C64 and peripherals. Begins with start-up procedures and special keys, then moves into simple BASIC programming and use of color, sound, graphics and sprites. Also covers datasette and 1541 operations.

Includes a fully indexed quick reference card.

>>> Circle Reader Service No. 25 <<<

The GOLD DISK

Gold Disk Software Series

Gold Disk

\$ 14.95 Diskette

for: C64

A series of volumes of high quality software at a price that's hard to resist. Each volume contains a feature program such as a word processor, data base, spread sheet, graphics package, music synthesis. Plus each volume contains high quality games. User friendly and fully documented on disk, which is printable on most printers.

>>> Circle Reader Service No. 23 <<<

How to Operate the VIC-20

FlipTrack Learning Systems

\$ 19.95 Tape

Similar to the 'How to Operate the C=64' but for the VIC-20 computer.

Instructional Video Tapes

Lynn Computer Service

\$ 19.95

for: C64

VHS or Beta tapes available for BASIC, disk i/o, Calc-Result (Advanced & Easy), Practicalc 64, and Multiplan. Prices range from \$29.95 to \$39.95.



CP/M

PRODUCT ROUNDUP!

(CP/M is a trademark of Digital Research, Inc.)

INTEGRATED SOFTWARE

Personal Planner

National MicroWare
\$ 99.00 Diskette

for: CP/M

Home DBMS, mail list, letter writer, and expense tracker.

Starburst

MicroPro
\$ 195.00 Diskette

for: CP/M

A utility which integrates Wordstar, Infostar, Calcstar and MailMerge.

T/Maker

T/Maker
\$ 275.00 Diskette

for: CP/M

Wordprocessing, spreadsheet, graphics. One of few integrated packages for CP/M.

BUSINESS ACCOUNTING

1040 Plus

1040 Plus
\$ 550.00 Diskette

for: CP/M

Full income tax package with videotape tutorial.

Accounting Partner

Star Software Systems
\$ 395.00 Diskette

for: CP/M

g/l, a/r, a/p, billing and payroll system.

Application Interpreter

Construction Estimating
\$ 599.00 Diskette

for: CP/M

Estimates and accounting for contractors.

BCA General Accounting

BCA
\$ 350.00 Diskette
for: CP/M
Full accounting system.

Champion

Data Base Research
\$ 495.00 Diskette
for: CP/M
Full accounting system written with dBase II.

Client System

Cyberian Software
\$ 995.00 Diskette
for: CP/M
Full professional accounting system.

Daymaster

Executive Data Systems
\$ 100.00 Diskette
for: CP/M
Office administration program.

Desktop Accountant

Rocky Mountain Software
\$ 495.00 Diskette
for: CP/M
Integrated accounting system.

Desktop Inventory

Rocky Mountain Software
\$ 295.00 Diskette
for: CP/M
Inventory management system.

Forty-Niner

Excalibur Systems
\$ 295.00 Diskette
for: CP/M
Sales prospect management system.

Fund Accounting System

International Micro Systems
\$ 650.00 Diskette
for: CP/M
Budgeting for non-profit institutions.

G&G 1040

G&G Software
\$ 600.00 Diskette
for: CP/M
Professional tax preparation system.

G/L/Supercalc Interface

Micro Business Applications
 \$ 595.00 Diskette
 for: CP/M
 Lets SuperCalc read and use general ledger files.

LBS

Tri-L Data Systems
 \$ 995.00 Diskette
 for: CP/M
 Legal billing system for attorneys.

Magichck

Magicomp
 \$ 59.00 Diskette
 for: CP/M
 Checkbook accounting system.

MBA Accountant

Micro Business Applications
 \$ 595.00 Diskette
 for: CP/M
 Complete accounting system with SuperCalc interface.

Mini-Ledger

Paradigm Consultants
 \$ 150.00 Diskette
 for: CP/M
 Ledger program for small businesses.

Oil & Gas Distributor

Alpine Data
 \$ 1195.00 Diskette
 for: CP/M
 Accounting and inventory for oil and gas distributors.

On-Line Order Entry

Univair Systems
 \$:na Diskette
 for: CP/M
 Point of sale order system with inventory control.

Peachtree Accounting

Peachtree Software
 \$:na Diskette
 for: CP/M
 Modular accounting system.

Post Card Billing

Alpine Data
 \$ 295.00 Diskette
 for: CP/M
 Third-party billing system handles thousands of customers for several clients.

Priorities

Hula Software
 \$ 39.00 Diskette
 for: CP/M
 Project management system.

Real World Accounting

RealWorld
 \$ 650.00 Diskette
 for: CP/M
 Complete accounting system.

Series 9000 PTA

Univair Systems
 \$ 995.00 Diskette
 for: CP/M
 Time and expense billing for professionals.

Software Fitness Program

Open Systems
 \$ 525.00 Diskette
 for: CP/M
 Fully integrated general ledger and accounting system.

Solomon

TLB Associates
 \$ 595.00 Diskette
 for: CP/M
 Flexible full accounting package.

Statistical & Business

Lionheart
 \$ 100.00 Diskette
 for: CP/M
 Statistical and business program series, PERT, Monte Carlo, etc. in \$100 range.

Sundial Docket & Calendar

Sunbear Systems
 \$ 149.00 Diskette
 for: CP/M
 Docket and calendar with client and date searching.

Systat 2

Systat
 \$ 495.00 Diskette
 for: CP/M
 Full statistical package with DBMS and graphics.

VersaBusiness Series

Computronics
 \$ 99.95 Diskette
 for: CP/M
 Payroll, inventory, receivables and payables programs available separately.

VersaLedger II

Computronics
 \$ 149.95 Diskette
 for: CP/M
 Full feature general ledger program.

**PERSONAL
CPM FINANCES**

Card-Master

Generic Software
 \$ 39.00 Diskette
 for: CP/M
 Credit card management program.

Financial Pak

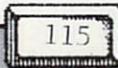
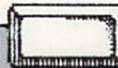
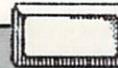
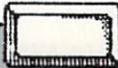
Generic Software
 \$ 149.00 Diskette
 for: CP/M
 Financial planning package.

Fund-Master

Generic Software
 \$ 59.00 Diskette
 for: CP/M
 Mutual funds investment aid.

Investment Master

Generic Software
 \$ 49.00 Diskette
 for: CP/M
 Annuity investment calculations.



SPREADSHEETS

CP/M

Calcstar

MicroPro
\$ 145.00 Diskette
for: CP/M
Wordstar-compatible spreadsheet.

Multiplan

MicroSoft
\$ 250.00 Diskette
for: CP/M
A spreadsheet program with a good reputation in the industry.
(-Staff)

MyCalc

Software Toolworks
\$ 59.00 Diskette
for: CP/M
Easy-to-use spreadsheet.

SuperCalc 2

Sorcim
\$ 195.00 Diskette
for: CP/M
Spreadsheet and data manager compatible with Wordstar and DIF files.

SuperCalc

Sorcim
\$ 195.00 Diskette
for: CP/M
Well established spreadsheet.

Tax Planner

TaxCalc Software
\$ 150.00 Diskette
for: CP/M
Tax templates for popular spreadsheets.

WORDPROCESSING

CP/M

Colortext

Jupiter Island
\$ 98.00 Diskette
for: CP/M
Color word processor.

Final Word

Mark of the Unicorn
\$ 300.00 Diskette
for: CP/M
Dual-mode word processor with auto-save security and error undo.

FYI 3000

FYI
\$ 395.00 Diskette
for: CP/M
DBMS-type sorting and file management for wordprocessor files.

MagicIndex

Computer EdiType
\$ 295.00 Diskette
for: CP/M
Automatic index and table of contents generator.

Mail Merge

MicroPro
\$ 250.00 Diskette
for: CP/M
Adds form letter capability to Wordstar.

Palintir Speller

Palintir Software
\$ 145.00 Diskette
for: CP/M
Spelling checker for Palintir Wordprocessor.

Palintir Wordprocessor

Palintir Software
\$ 250.00 Diskette
for: CP/M
Wordprocessor featuring boilerplating, proportional spacing, horizontal scroll.

Proportional Spacing

Writing Consultants
\$ 75.00 Diskette
for: CP/M
Gives proportional spacing to Wordstar files with a daisy wheel printer.

Propstar

Civil Computing
\$ 49.95 Diskette
for: CP/M
Stand alone program that gives proportional spacing to Wordstar files with a daisy wheel printer.

Punctuation & Style

Oasis Systems
\$ 125.00 Diskette
for: CP/M
Punctuation and style checker for wordprocessing files.

Sensible Speller

Sensible Software
\$ 125.00 Diskette
for: CP/M
Random House Dictionary spelling checker for Wordstar.

Spellbinder

Lexisoft
\$ 495.00 Diskette
for: CP/M
Integrated wordprocessor with mail list management and math functions.

Spellguard

Innovative Software
\$ 295.00 Diskette
for: CP/M
Wordstar spelling checker.

Spellstar

MicroPro
\$ 250.00 Diskette
for: CP/M
Spelling checker for Wordstar.

Synonymn Finder

Writing Consultants
\$ 149.00 Diskette
for: CP/M
Wordstar and Multimate thesaurus.

TransText

Information Reduction Research
\$ 99.00 Diskette
for: CP/M
Translates wordprocessor text formats.

WordPatch
Rocky Mountain Software
\$ 49.00 Diskette
for: CP/M
Wordstar improvement modification program.

Wordstar
MicroPro
\$ 495.00 Diskette
for: CP/M
The original CP/M word processor, against which all others are judged.

DATABASE MANAGERS

Able One Mailing List

Able Data Software
\$ 29.95 Diskette
for: CP/M
An enhanced mailing list management program in CP/M. You can print labels in five different formats. Four additional fields in each record for date, telephone number, and two amount fields if desired. Entire roster may be printed and size is limited to disk storage size. Requires 2 drives and 132 column printer.

Cardbox
Caxton Publishing
\$ 245.00 Diskette
for: CP/M
Electronic filing system that emulates a card file.

Condor
Condor Computer
\$ 650.00 Diskette
for: CP/M
Relational database creation program along the lines of dBase II.

Database 3
Holiday Software
\$ 50.00 Diskette
for: CP/M
Inexpensive database and filing program.

dBase II
Ashton-Tate
\$ 700.00 Diskette
for: CP/M
The quintessential programmable database system generator.

dBase Templates
Impact Information Systems
\$ 39.00 Diskette
for: CP/M
Templates to use with dBase II for receivables, payables, inventory, etc.

dBase Utilities
Hilco Software
\$ 30.00 Diskette
for: CP/M
Utilities to use with dBase II that decode, modify, and speed up applications.

DBPack II
Compu-Draw
\$ 395.00 Diskette
for: CP/M
Advanced relational DBMS.

DBPlus
Software Banc
\$ 125.00 Diskette
for: CP/M
Inexpensive DBMS writes DIF files.

FileBase
EWDP Software
\$ 125.00 Diskette
for: CP/M
Variable length fields data manager storing records in the comma delimited format used by most letter-merge programs such as WordStar, Multimate, etc. Menu-driven and a good value.

FilePro
Small Computer
\$ 199.00 Diskette
for: CP/M
DBMS applications generator.

Filer
Compu-Draw
\$ 49.00 Diskette
for: CP/M
Filing and cataloging program.

Friday!
Ashton-Tate
\$ 295.00 Diskette
for: CP/M
Electronic filing system.

Infostar
MicroPro
\$ 495.00 Diskette
for: CP/M
Off the shelf DBMS. Files compatible with Wordstar.

List Master
Palace Software
\$ 179.00 Diskette
for: CP/M
Wordpro-compatible information organizer.

Notebook
Digital Marketing
\$ 150.00 Diskette
for: CP/M
Free-form DBMS.

Palintir Filer
Palintir Software
\$ 145.00 Diskette
for: CP/M
DBMS compatible with Palintir wordprocessor.

Personal Pearl
Pearlsoft
\$ 295.00 Diskette
for: CP/M
Relational DBMS.

Prospector
Executive Data Systems
\$ 300.00 Diskette
for: CP/M
Sales prospect database.

R:base 4000
Mircorim
\$ 495.00 Diskette
for: CP/M
Extensive relational DBMS.

SeekEasy

Correlational Systems
\$ 235.00 Diskette
for: CP/M

Intelligent error-free-input, free-form filing system.

Selector V

Micro-Ap
\$ 450.00 Diskette
for: CP/M

Relational DBMS with report writer.

Unifile

Univair Systems
\$ 195.00 Diskette
for: CP/M

DBMS with report writer.

TELECOMPUTING**CP/M****CP/M Term**

Cardinal Software
\$:na Diskette
for: C64 CP/M

CP/M telecommunications program that supports the C64 (with CP/M adapter program) with 1600, 1650, and 19200 baud. Also supports any RS232 modem (with adapter) at 1200 baud.

PROGRAMMING / LANGUAGES**CP/M****XtraTech**

Xpert Software
\$ 19.95 Diskette
for: CP/M

Debugging utility, featuring scan memory for byte strings, save console output to file, type memory, i/o instructions direct to ports, display parameters, substitute memory, etc. Enhances not replaces other debuggers and stays in memory thru warm boots.

68000 Assembler

Quelio
\$ 595.00 Diskette
for: CP/M

Cross-assembler for program development for 68000 based systems, like the AMIGA.

Aztec C II

Manx Software
\$ 349.00 Diskette
for: CP/M

C compiler for CP/M with utilities, library, UNIX-type I/O, etc.

BDS C

BDS Software
\$ 150.00 Diskette
for: CP/M

A well established and excellent version of C for CP/M.

C/80 Mathpak

Software Toolworks
\$ 29.00 Diskette
for: CP/M

Adds floats and longs to C/80 compiler.

C/80

Software Toolworks
\$ 49.00 Diskette
for: CP/M

Inexpensive C compiler.

C80

Zeigthy Data
\$ 45.00 Diskette
for: CP/M

Another inexpensive C compiler.

CBASICCompiler

Digital Research
\$ 500.00 Diskette
for: CP/M

Advanced structured basic compiler supports Digital's GSX graphics and maybe GEM.

Cross-assemblers

Avocet
\$ 250.00 Diskette
for: CP/M

A full line of cross-assemblers for most cpu's on the market, from 8085 to the 68000.

Janus ADA

R.R. Software
\$ 300.00 Diskette
for: CP/M

Several ADA subsets available.

Josef

Kobetek Systems
\$ 45.00 Diskette
for: CP/M

A new powerful educational programming language for the C128 in CP/M mode (now being developed by Kobetek Systems) which combines the spirit of the LOGO Turtle with the structure of Pascal.

LISP/80 Interpreter

Software Toolworks
\$ 39.95 Diskette
for: CP/M

Inexpensive LISP interpreter.

LMI FORTH

Laboratory Microsystems
\$:na Diskette
for: CP/M

FORTH-83 for CP/M systems.

MasterForth

MicroMotion
\$ 100.00 Diskette
for: CP/M

Forth-83.

Masterful Disassembler

C.C. Software
\$ 45.00 Diskette
for: CP/M

Machine code disassembler.

MicroSoft BASIC

MicroSoft
\$ 395.00 Diskette
for: CP/M

Combination BASIC compiler and interpreter.

MTBASICCompiler

Softaid
\$ 49.95 Diskette
for: CP/M

Multitasking BASIC compiler with recursion, windows, etc. for Z80.

MVP FORTH

Mountain View Press
 \$ 150.00 Diskette
 for: CP/M
 The quintessential FORTH implementation.

Nevada BASIC

Ellis Computing
 \$ 29.95 Diskette
 for: CP/M
 Basic interpreter with BCD math, built-in editor.

Nevada COBOL

Ellis Computing
 \$ 29.95 Diskette
 for: CP/M
 COBOL for CP/M.

Nevada Fortran

Ellis Computing
 \$ 29.95 Diskette
 for: CP/M
 Inexpensive introduction to ANSI-66 Fortran.

Nevada Pascal

Ellis Computing
 \$ 29.95 Diskette
 for: CP/M
 Pascal for CP/M.

Nevada Pilot

Ellis Computing
 \$ 29.95 Diskette
 for: CP/M
 Pilot for CP/M.

PL/I 80

Digital Research
 \$ 500.00 Diskette
 for: CP/M
 A subset fo the mainframe language for a micro environment.

Ratfor

Software Toolworks
 \$ 39.00 Diskette
 for: CP/M
 Inexpensive FORTRAN implementation.

Runic-80

Starside Engineering
 \$ 39.95 Diskette
 for: CP/M
 Forth-like language claimed to be easier to learn and use than Forth.

Supersoft A

SuperSoft
 \$ 300.00 Diskette
 for: CP/M
 Subset fo ADA includes approximately 2/3 of ADA.

Supersoft C

SuperSoft
 \$ 350.00 Diskette
 for: CP/M
 Optimized C compiler with 130 library functions included.

Turbo Pascal

Borland
 \$ 49.95 Diskette
 for: CP/M
 Highly praised Pascal for CP/M systems. Toolbox, tutorial package available.

UO-LISP

Northwest Computer Algorithms
 \$ 49.95 Diskette
 for: CP/M
 LISP interpreter and compiler.

Waltz Lisp

ProCode
 \$ 169.00 Diskette
 for: CP/M
 Formidable LISP system for CP/M. Included mini-PROLOG written in LISP.

UTILITIES**CP/M****AMX**

Kadak Products
 \$ 800.00 Diskette
 for: CP/M
 Multitasking executive with language interface.

ConIX DOS

Computer Helper
 \$ 79.95 Diskette
 for: CP/M
 Shell-like front end for CP/M-like UNIX.

Datasafe

Trigram Systems
 \$ 139.00 Diskette
 for: CP/M
 Data security encryption.

Diagnostics II

SuperSoft
 \$ 125.00 Diskette
 for: CP/M
 Checks out your system.

Eureka!

Disco Tech
 \$ 75.00 Diskette
 for: CP/M
 Disk file organization and management.

Media Master

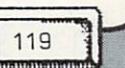
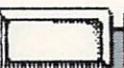
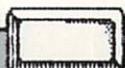
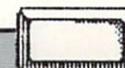
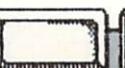
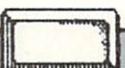
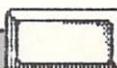
MDC & Associates
 \$ 29.95 Diskette
 for: CP/M
 Disk format conversion program. Might not work on C=128 unless translated.

Nevada EDIT

Ellis Computing
 \$ 29.95 Diskette
 for: CP/M
 Full-screen text editor for program development, etc.
 Vast improvement on ED.

P/C Privacy

MicroComputer Telecom. People
 \$ 140.00 Diskette
 for: CP/M
 Data encryption program.



Pack & Crypt
Software Toolworks
\$ 24.95 Diskette
for: CP/M
Encrypts and packs disk files.

Power!
Computing!
\$ 99.95 Diskette
for: CP/M
Adds a powerful menu-driven front end to the CP/M system.

SCG31
C.C. Software
\$ 75.00 Diskette
for: CP/M
Source code generator.

Supermit
Roy Lipscomb/Logic Associates
\$ 85.00 Diskette
for: CP/M
CP/M utilities.

Tutori/o
Roy Lipscomb/Logic Associates
\$ 31.00 Diskette
for: CP/M
Animates, debugs, and unleashes BDOS.

Util
EWDP Software
\$ 40.00 Diskette
for: CP/M
Consolidates frequently used CP/M file functions into a single program with self-typing commands.

Virtual Volume Manager
MicroTASK
\$ 44.95 Diskette
for: CP/M
Disk file management and maintainence package.

XtraKey
Xpert Software
\$ 39.95 Diskette
for: CP/M
Keyboard expansion/redefinition program that allows the user to redefine ordinary keys with long commands (macros) or strings. Can be used with WordStar, dBase II, SuperCalc, etc.

ZED
Pascal & Associates
\$ 50.00 Diskette
for: CP/M
Improved text editor.

Best of Wok Talk
Software Toolworks
\$ 29.95 Diskette
for: CP/M
200 Chinese recipes.

Cardinal CP/M Public Domain
Cardinal Software
\$ 10.00 Diskette
for: C64 CP/M
CP/M public domain disks for \$10 each.

Cardio
VetSoft
\$ 195.00 Diskette
for: CP/M
ECG analysis for veterinarians.

CI System
Litek
\$ 395.00 Diskette
for: CP/M
Legal firm client tracking system.

Computer Chef
Software Toolworks
\$ 29.95 Diskette
for: CP/M
Personal recipe filer.

Cramer Public Domain Library
Cramer
\$ 8.00 Diskette
for: CP/M
SASE for list. \$8/disk.

Critical Path Analysis
Siem Software Products
\$ 70.00 Diskette
for: CP/M
Business efficiency tool, up to 200 activities and 300 dates.

Daily Reminder & Calendar
International Computer Product
\$ 39.00 Diskette
for: CP/M
Notebook and appointment calendar.

DynaComp products
DynaComp
\$:na Diskette
for: C64 CP/M
Over 100 software products the C64 and some in CP/M, covering public domain disks, business, games, education, etc. (you name it).

Elliam Public Domain library
Elliam Associates
\$ 7.50 Diskette
for: CP/M
6000 programs on 300 disks. Catalog is \$7.50.

Fancy Font
SoftCraft
\$ 180.00 Diskette
for: CP/M
Create typeset-quality fonts in a variety of styles and point-sizes for print-out to Epson-compatibles. We haven't been able to get this program to work satisfactorily on the C128 to date.
(-Staff)

MISCELLANEOUS SOFTWARE

Adventure
Adventure
\$ 25.00 Diskette ***
for: CP/M
The original computer adventure in Colossal Cave.
(-Staff)

Financial Analysis System

Valuation Systems
\$ 125.00 Diskette
for: CP/M

Collection of real estate analysis programs.

INFO-80

The Software Store
\$ 395.00 Diskette
for: CP/M

Application development system with a catchy name.

National Publ. Domain Library

National Public Domain
\$ 45.00 Diskette
for: CP/M

Rent disks for 7 days to copy yourself. \$45.00/92 disks.

Stock & Trend Analyzer

NewTEK Industries
\$ 99.00 Diskette
for: CP/M

Stock charting and analysis.

Stock Option Planner

TaxCalc Software
\$ 100.00 Diskette
for: CP/M

Cost and results of covered call.

Stock Pricing Model

Kustom Software
\$:na Diskette
for: CP/M

Supercalc overlays for stock market.

What's for Dinner

Software Toolworks
\$ 19.95 Diskette
for: CP/M

200 family recipes.



AMIGA!

PRODUCT ROUNDUP



INTEGRATED SOFTWARE AMIGA

Enable/Office Manager

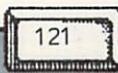
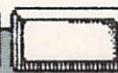
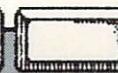
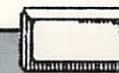
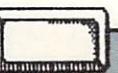
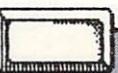
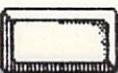
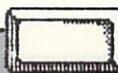
Software Group
\$:na Diskette
for: AMIGA

Highly acclaimed, second generation integrated package with word processing, spreadsheet, database, telecommunications and graphics modules. All modules can transfer files between each other as well as share data between other products such as: Lotus 1-2-3, dBase VisiCalc, Volkswriter, etc. Already considered by many as the best int. package for the IBM PC, Enable should REALLY shine on the AMIGA!
(-Staff)

Maximillian

Tardis Software
\$ 195.00 Diskette
for: AMIGA

Four modules (spreadsheet, wordprocessor, graphics, & terminal). Features 'dynamic paste' (ie: after transferring data from one module to another, changes made in one module are automatically made in the other.) All 4 programs run simultaneously and can be upgraded on a modular basis. Terminal module has unique feature allowing 2 Amigas to be 'slaved' together via modem for interactive use by multiple users.



BUSINESS ACCOUNTING

AMIGA

Rags to Riches

Chang Laboratories
\$:na Diskette
for: AMIGA

Ledger, Payables, Receivables, and Sales modules handle 5000 accounts and 10,000 transactions. Software is RAM-based for extra speed.

SPREADSHEETS

AMIGA

CalCraft

Synapse
\$:na Diskette
for: AMIGA

Advanced spreadsheet which features pull down menus and flexible formatting options. Available Sept. 1985.

Enable/Calc

Software Group
\$:na Diskette
for: AMIGA

Full featured spreadsheet program with Lotus-like macros, over 50 math functions and up to 8 simultaneously active spreadsheet files in RAM.

DATABASE MANAGEMENT

AMIGA

Enable/List

Software Group
\$:na Diskette
for: AMIGA

Powerful, flexible DBMS that can handle up to 1301 bytes of info with over 256 fields per record.

FileBase

EWDP Software
\$:na Diskette
for: AMIGA

Variable length fields data manager storing records in the comma delimited format used by most letter-merge programs such as WordStar, Multimate, etc. Menu-driven and a good value.

GRAPHICS

AMIGA

Amiga Draw!

Aegis Development
\$:na Diskette
for: AMIGA

Drafting and design tool to create accurate and detailed drawings of anything you can imagine and then transfer those images to plotters or printers. Supports windowing, zoom, undo, mouse, keyboard, tablets, pull down menus and more.

Deluxe Video Construction Set

Electronic Arts
\$:na Diskette
for: AMIGA

Creates animated videos with cartoon-like graphics and sound effects. Accepts data from other EA software.

Graphcraft

Island Graphics
\$:na Diskette
for: AMIGA

Paint package that drives 32 high resolution colors. Allows users to airbrush with variable density and diameter, spread color, repeat objects, and cycle colors.

Moviecraft

Island Graphics
\$:na Diskette
for: AMIGA

Advanced animation effects and image manipulation program using icons and pull down menus for ease and speed. System uses 'tweening' technique to produce animated sequence without having to read from disk.

Presentationcraft

Island Graphics
\$:na Diskette
for: AMIGA

Allows the user to produce shaded 3-D objects, explode and expand bar and pie graphs plus variety of special effects for business presentations.

WORDPROCESSING

AMIGA

Enable/Write

Software Group
\$:na Diskette
for: AMIGA

Advanced word processing program for professional users with advanced features like multiple format lines, automatic footnoting, index, and table of content generation, extended character sets, mail merge, etc.

TextCraft

Arktronics
\$:na Diskette
for: AMIGA

A 'what you see is what you get' word processor. Offers a choice of up to 4 type styles and three fonts, as well as up to 8 colors for text or background. On-screen menus and 6 templates (preformatted for business letters, resumes, etc.).

Print Shop

Broderbund
\$:na Diskette
for: AMIGA

AMIGA version of the ever popular greeting card, sign, banner, letterhead printer program. Available in Nov. 1985.

MUSIC

AMIGA

Harmony

Cherry Lane Technologies
\$:na Diskette
for: AMIGA

Uses artificial intelligence to create musical accompaniment which follows the musician's tempo rather than compelling the user to follow the recorded music's tempo. Up to 5 lines of pre-recorded music can be stored.

Musicraft

Everyware
\$:na Diskette
for: AMIGA

Turns the AMIGA into a professional 4 voice synthesizer and sequencer. Allows the user to play the computer keyboard like a piano.

Scorewriter

Cherry Lane Technologies
\$:na Diskette
for: AMIGA

Allows musicians to score and print music and exploits the graphics and sound capability of the AMIGA for functional ease.

Texture

Cherry Lane Technologies
\$:na Diskette
for: AMIGA

A modular recording program that allows flexible editing and easy manipulation of musical text. Musical compositions can be recorded as a series of small pieces then linked together to form a complete composition.

TELECOMPUTING

AMIGA

T-Modem

Tecmar
\$ 600.00
for: AMIGA

A Hayes compatible modem with selectable 300, 1200, and 2400 bauds. Provides touch tone decoding, off hook detection and interfaces to audio circuits within the AMIGA. Modem fits neatly under a standard phone.

Telecraft

Software 66
\$:na Diskette
for: AMIGA

Easy to use, but sophisticated communications and terminal emulation package.

PROGRAMMING

AMIGA

Lattice C Compiler

Lattice
\$:na Diskette
for: AMIGA

Allows programs designed to run on other PC operating systems to work on the AMIGA. It uses a native C AMIGA compiler language to generate an AMIGA object format. Fully compatible with Kernighan & Ritchie code.

Lattice C CrossCompiler/MSDOS

Lattice
\$:na Diskette
for: AMIGA

Allows programs developed for the AMIGA to run on IBM pc's. It uses an IBM MS-DOS source to generate an AMIGA target system. Fully compatible with Kernighan & Ritchie code.

Lattice C CrossCompiler/UNIX

Lattice
\$:na Diskette
for: AMIGA

Allows programs developed for the AMIGA to run on UNIX-type machines. It uses a Sun UNIX 4.2 source to generate an AMIGA target system. Fully compatible with Kernighan & Ritchie code.

Lattice C CrossCompiler/VAX

Lattice
\$:na Diskette
for: AMIGA

Allows programs developed for the AMIGA to run on VAX-type machines. It uses a VAX source to generate an AMIGA target system. Fully compatible with Kernighan & Ritchie code.

LMK

Lattice
\$:na Diskette
for: AMIGA

Similar to UNIX-Make. Once the user specifies the relationships of various elements the system (ie. source modules, object modules) in a dependent file, the 'LMK' command initiates the automatic rebuilding for the system in other files.

LSE

Lattice
\$:na Diskette
for: AMIGA

Acts as a screen editor allowing users to input commands in several languages. Multi-windowing, back-up directories and user defined command terms.

TMN

Lattice
\$:na Diskette
for: AMIGA

Provides text management utilities which allow the user to search simple or complicated files. Special commands allow users to see even minimal differences between two files and to automatically modify a file by user instructions.

ABasic

MicroSoft
\$:na Diskette
for: AMIGA

The version of basic supplied with the AMIGA.
Provides a programming environment exploiting all of the unique features of the AMIGA (multiple windows and screens, animation, 4 voices, menus, etc.).

Amiga Assembler/Linker

Metacomco
\$:na Diskette
for: AMIGA

A Motorola standard macro-assembler with a corresponding linker.

Amiga DOS

Metacomco
\$:na Diskette
for: AMIGA

Multi-tasking operating system with many powerful features, like sophisticated hierachial filing system with dynamic file allocation and no restrictions on size.

Cambridge LISP 68000

Metacomco
\$:na Diskette
for: AMIGA

A programming language designed for work in artificial intelligence, incorporating an interpreter, compiler and structure editor.

MCC Pascal 68000

Metacomco
\$:na Diskette
for: AMIGA

Full ISO 7185 standard Pascal single pass compiler combines both speed and efficiency and is suitable for professional and educational use.

Metacomco BASIC

Metacomco
\$:na Diskette
for: AMIGA

A BASIC interpreter for all general purpose BASIC programming, designed to take advantage of the graphics and sound capabilities of the AMIGA.

TLC-LOGO

Lisp Company
\$:na Diskette
for: AMIGA

Provides a continuous learning path from general purpose programming to use of A.I. concepts in programming. Uses a LISP dialect that combines the notion of 1st class objects and the semantics of LISP into a simple LOGO syntax.

Turbo Pascal

Borland
\$:na Diskette
for: AMIGA

Highly praised Pascal system. Toolbox and tutorial package available.

Uti

EWDP Software
\$:na Diskette
for: AMIGA

Consolidates frequently used CP/M file functions into a single program with self-typing commands.

ARCADE & ACTION GAMES

AMIGA

Archon'

Electronic Arts
\$:na Diskette
for: AMIGA

Played on a board where icons occupy the squares, and in an arena where icons race around trying to zap each other, the object of Archon is to occupy all six power points (they move around, increasing the difficulty). For 1 or 2 players.

(-B.D.)

Arctic Fox

Electronic Arts
\$:na Diskette
for: AMIGA

You command the advanced and deadly tank of the future. A first person tank combat game with all the stunning 3-D graphics and sound only the Amiga can do.

F-15 Strike Eagle

MicroProse Software
\$:na Diskette
for: AMIGA

A captivating game experience flying a fighter bomber. Not as finicky and crash prone as some flight simulators (this plane is considered landed by just coming close to your base). The real action and pleasure of this game is combat flying, bombing, and dog fighting. The cockpit is detailed and the action is convincing. Four skill levels.

(-B.D.)

Marble Madness

Electronic Arts
\$:na Diskette
for: AMIGA

Outstanding translation of the arcade version. Wonderful graphics and endless play. Definitely the next generation in video game standards!

Return to Atlantis

Electronic Arts
\$:na Diskette
for: AMIGA

3-D undersea adventure with realistic sound effects.

Skyfox

Electronic Arts
\$:na Diskette
for: AMIGA

Realistic combat flight simulator with on-board flight radar. You can't crash yourself, but you can get blown to bits.

CONVENTIONAL GAMES

AMIGA

Sargon III

Hayden
\$:na Diskette
for: AMIGA

Features 9 levels of play and a library of 68,000 moves. Provides instruction for the novice and brain teasing chess problems for the master. AMIGA version available 1st quarter 1986.

TEXT ADVENTURES AMIGA

Cut Throats

Infocom
\$:na Diskette
for: AMIGA

This text adventure places you on an out-of-the-way island populated by some disreputable characters. You're a diver for hire and they hire you to recover some sunken treasure. Standard level.

Deadline

Infocom
\$:na Diskette
for: AMIGA

You are the detective solving a murder in this exciting adventure. Very realistic characters with distinct personalities. Expert level.

Enchanter

Infocom
\$:na Diskette
for: AMIGA

In the Zorkian tradition, you are a beginning magician whom Fate has chosen to do singlehanded combat with a dark and fierce power. Standard level.

Infidel

Infocom
\$:na Diskette
for: AMIGA

Another Infocom text adventure where you are marooned by your followers in the heart of the Egyptian desert. You have come in search of a great lost pyramid and its untold riches. Advanced level.

Planetfall

Infocom
\$:na Diskette
for: AMIGA

You are teleported forward in time to a Stellar Patrol ship, where your rank is Ensign 7th Class (the lowest). The ship explodes and you are jettisoned to a deserted and mysterious world, where you must dare its dangers and try to save it. Standard level.

Sorcerer

Infocom
\$:na Diskette
for: AMIGA

Another text adventure that poses you with a mystical clue and a magical tour thru the darker side of the Zorkian Empire. Advanced level.

Starcross

Infocom
\$:na Diskette
for: AMIGA

Text adventure with a science fiction theme in the year 2186, where you are destined to rendezvous with a gargantuan starship from the outer fringes of the galaxy. Expert level.

Suspect

Infocom
\$:na Diskette
for: AMIGA

This time you are the suspect, and Sgt. Duffy wants you! You must solve the murder to clear your name and do it amidst the activity of masked ball in a mansion. Advanced level.

Suspended

Infocom
\$:na Diskette
for: AMIGA

Unique interactive-prose adventure from the company that brought you Zork and Deadline. In this one you command 6 robots each with distinct personalities and various abilities in an effort to avoid world wide catastrophe. Includes a map for tracking your 6 robots. Expert level.

Witness

Infocom
\$:na Diskette
for: AMIGA

Spine-tingler of a blackmail case that turns into murder before your eyes, and anyone from the knockout heiress to the poker-faced Oriental butler could be the killer. Standard level.

Zork I, II, III

Infocom
\$:na Diskette
for: AMIGA

The Great Underground Empire confronts you with perils and predicaments ranging from the mystical to the macabre, as you strive to discover the Treasures of Zork and escape with them and your life. Zork I is of standard level and II & III are advanced levels.

GRAPHIC ADVENTURES AMIGA

Deja Vu

Mindscape
\$:na Diskette
for: AMIGA

Graphic text adventure that transports you into a suspense filled 1940's Hollywood mystery. Hidden clues are revealed by clicking a mouse. Players view several aspects of the adventure simultaneously with the AMIGA's windowing.

Seven Cities of Gold

Electronic Arts
\$:na Diskette
for: AMIGA

An adventure game of discovering the new world in the late 1400's. Carefully balance your resources between the number of ships, men, supplies and valuables to trade or give the natives. You'll like this one if you like exploring and can negotiate with unpredictable natives.

(-B.D.)

STRATEGY & SIMULATION AMIGA

Acroject

MicroProse Software
\$:na Diskette
for: AMIGA

Allows those pilots who have soloed in Solo Flight to now pilot their own personal jet, the BD5-J. You can then participate in a Decathlon of Sport Aviation events, including spot landings, ribbon cuts, acrobatics, and more. High performance flying, including rolls, loops, Immelmanns all in 3-D.

Crusade in Europe

MicroProse Software
\$:na Diskette
for: AMIGA

From D-day to the Battle of the Bulge, you will have the chance to replay the hands dealt by history in this real-time strategic war-game simulation. A large scrolling map shows terrain and troops with your choice of symbolic or pictorial game pieces. Very easy to start playing, but amply complex for crustier war-gamers. Sound effects and graphics are just right.

(-B.D.)

Kennedy Approach

MicroProse Software
\$:na Diskette
for: AMIGA

Air traffic controller that supports several advanced and unique features, that help make it work (i.e. good quality speech synthesis and indication of the altitude of planes, giving you 3-d visual information on a 2-d game grid). If you aren't getting enough tension in your life, this should help.

(-B.D.)

One on One

Epyx
\$:na Diskette
for: AMIGA

1 or 2 players may switch personalities with Dr. J or Larry Bird. All elements of the game have been included through excellent programming: dribbling, shooting, rebounding, stealing, blocking, 180-degree spins & slam dunks (easy on the backboard...it's breakable). Referee calls the fouls, janitor sweeps up broken backboards, and instant replays on good moves.

(-B.D.)

Radar Raiders

Sublogic
\$:na Diskette
for: AMIGA

Simulates a high performance jet aircraft flown in test pilot and combat game modes. Exploits graphics and sound capabilities of the AMIGA (very dynamic sound when linked to a stereo system). Available 4th quarter 1985.

Silent Service

MicroProse Software
\$:na Diskette
for: AMIGA

A submarine simulation of WWII submarine combat in the Pacific. Features multi-sub locations including engine room, conning tower and ship's bridge.

Solo Flight

MicroProse Software
\$:na Diskette
for: AMIGA

Real-time light airplane simulation, with 3-D terrain graphics, multiple airports, varying conditions, full instrumentation, air-mail game, VFR & IFR flying.

(-B.D.)

EDUCATIONAL GAMES

AMIGA

Halley Project

MindScape
\$:na Diskette
for: AMIGA

Players must successfully complete a series of missions, navigating by the stars, in this authentic real-time simulation of the solar system. Qualifiers may participate in a special secret mission.

Keyboard Cadet

MindScape
\$:na Diskette
for: AMIGA

Trains users to type on the computer keyboard, excellent graphics and ease of use make it appropriate for users age 8 and up.

MISCELLANEOUS SOFTWARE

AMIGA

AMIGA Tutor

MindScape
\$:na Diskette
for: AMIGA

Illustrates the AMIGA's graphics capabilities and offers a chapter-by-chapter look at the machine's major features.

PERIPHERALS & HARDWARE

AMIGA

T-Card

Tecmar
\$ 400.00
for: AMIGA

A multi-functional expansion card with up to 1M byte of memory. Features a serial port, clock/calendar with battery backup, hard disk interface, parallel printer port and additional power supply.

T-Disk

Tecmar
\$ 1000.00
for: AMIGA

A 20Mbyte compact 3.5 inch high hard disk drive. Comes with its own cabinet for external mounting and a shielded cable for connecting it to T-Card thru an SASI port. The drive's light panel indicates power file selected and read/write status.

T-Tape

Tecmar
\$ 600.00
for: AMIGA

A 20Mbyte tape backup for a hard disk drive. Comes as a stand alone unit with its own power supply. T-Tape can be linked to an AMIGA thru a floppy interface port. The device's light panel gives readouts on track number, tape direction, read/write status and power.

Amiga Eye

A-Squared Systems
\$:na Diskette
for: AMIGA

Color video digitizer where the user can vary hue, saturation, luminance and colors (over 4,000). Record up to 1 second of imaging and replay the recreated images in 'instant replay', slow motion, stop action, or high speed modes.

Penmouse+ Input Device

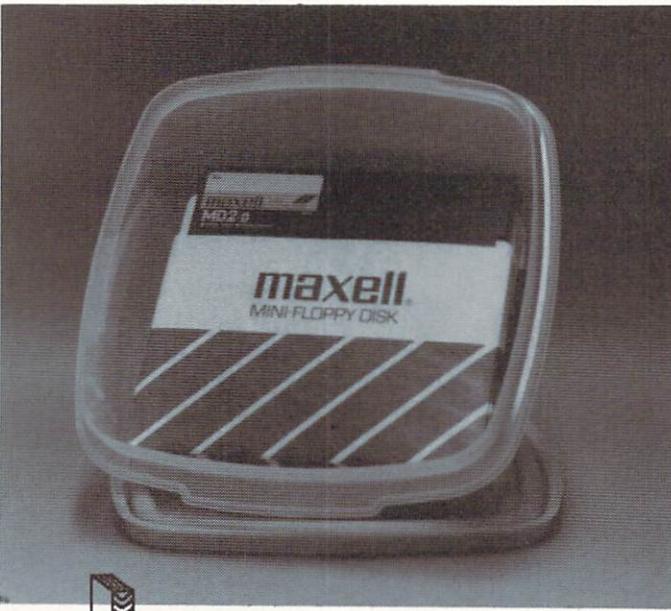
Kurta Corp.
\$:na Diskette
for: AMIGA

Emulates both a mouse and graphics tablet. Uses an electronic method of movement detection instead of a mechanical one to achieve a higher measure of accuracy. The pen is cordless for ease of use and has a built-in power supply.

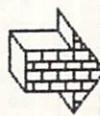
Space Pen

Soniture
\$ 175.00 Diskette
for: AMIGA

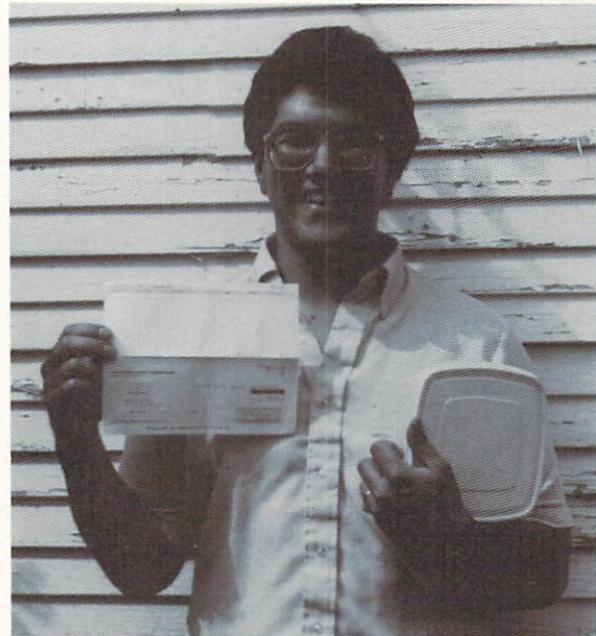
A 3-D input device that lets you send ultrasonic signals to the computer. Including sampler software.



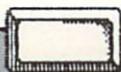
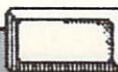
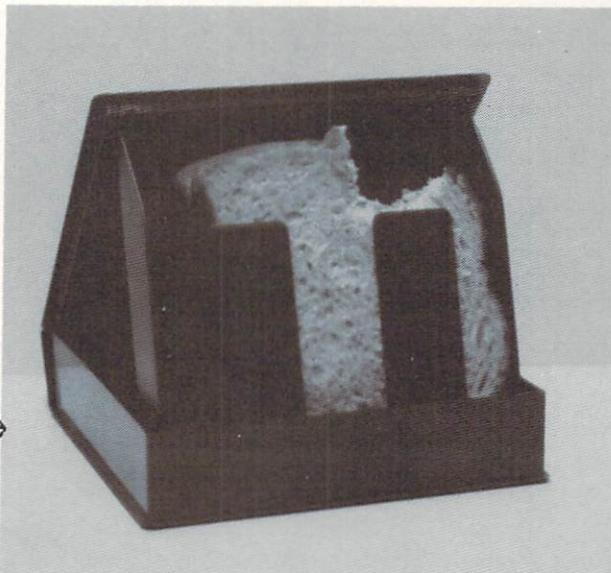
Embarrassed at our discovery of his unfaithfulness, (and threatened with the possibility of having his vacation scheduled during the week the Amiga arrives) Marty decided to give us an even better tip (see photo, right) with which he had originally hoped to win RUN'S \$20 or \$50 special award. Sorry about the photo, but Marty got hungry during the photo session.



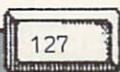
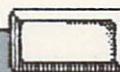
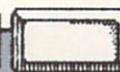
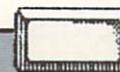
DOUBLE-TAKE



INFO's very own **Marty Amorin** (apparently not making ends meet with what he makes at INFO) recently went behind our executive backs and submitted his original idea for severe-weather portable diskette storage (a Rubbermaid sandwich container) to RUN Magazine for inclusion in their MAGIC column. Pictured here are Marty and his big \$10 check from RUN, as well as a close-up of the container in use.



INFO



INDEX TO PRODUCT ROUNDUP VENDORS

(M)agreeable Software 5925 magnolia ln. plymouth mn 55442 612-559-1108	After Six Software po box 13015 portland or 97213	Avalon Hill 4517 harford rd. baltimore md 21214 301-254-9200 800-638-9292	Borland 4113 scotts valley dr. scotts valley ca 95066 408-438-8400
1040 Plus 6730 e. mcdowell #103 scottsdale az 85257 602-941-3407	Algo-Rhythm Software 176 mineola blvd. mineola ny 11501 516-294-7590	Avocet po box 490 10 summer st. rockport me 04856 207-236-9055	Boston Educational 78 dartmouth st. boston ma 02116 617-536-5116
3R Import 731 james st. suite 405 syracuse ny 13203 315-475-2224	Alien Group 27 w. 23rd st. new york ny 10010	B.E.S.T. box 852 mc minnville or 97128 503-472-9512	Briley Software box 2913 livermore ca 94550 415-455-9139
A-Squared Systems 7200 sayre drive oakland ca 94611	Alpine Data 635 main st. montrose ca 81401 303-249-1400	B128 Users Group c/o marlin schwank 432 n. 'm' st. apt. c lompoc ca 93436 805-735-6931	Broderbund 17 paul dr. san rafael ca 94903 415-479-1170
Abacus Software po box 7211 2201 kalamazoo st. s.e. grand rapids mi 49510 616-241-5510	Amaray 14935 n.e. 95th st. redmond wa 98052 206-881-1000 800-4-amaray	Basement Boys Software po box 30901 portland or 97230 503-256-5506	Business Systems & Conversions po box 50505 indianapolis in 46250 317-842-5385
Able Data Software po box 86923 station b north vancouver bc	American Educational Computer 2450 embarcadero way palo alto ca 94303 415-494-2021 800-222-2811	Basix 3463 state st. suite 1541d santa barbara ca 93105 805-687-1541	C&B Enterprises dept c64f po box 16252 panama city fl 32405 904-784-7125
Academy Software po box 6277 san rafael ca 94903 415-499-0850	American Peripherals 141 cortland st. lindenhurst ny 11757 516-226-5849	Batteries Included 186 queen st. west toronto on m5v-1z1 416-596-1405	C.C. Software suite 106 2564 walnut blvd. walnut creek ca 94596 415-939-8153
Access Software 925 e. 900th south salt lake city ut 84105 801-532-1134	Apricorn 7050 convoy ct. san diego ca 92111	BCA #104 874 van nuys blvd. panorama city ca 91402 818-891-0849	C.Itoh 1011 francisco st. torrance ca 90502 213-327-5939 800-423-0300
Acco 770 s. acco plaza wheeling il 60090 800-232-7882	Aquarian Software PO Box 22184 Portland OR 97222 503 654-2641	BDSoftware po box 2368 cambridge ma 02238 617-576-3828	Cardco 300 south topeka wichita ks 67202 316-267-6525
Activision drawer 7286 mountain view ca 94039	Arktronics 520 e. liberty st. ann arbor mi 48104 313 769-7253	Bible Research Systems 2013 well branch pkwy. #304 austin tx 78728 512-251-7541	Cardinal Software 13646 jefferson davis hwy. woodbridge va 22191 800-762-5645
Adam, Cobb & King 655 john muir dr. #411 san francisco ca 94132 408-224-4069	Artificial Intelligence 921 north la jolla ave. los angeles ca 90046 213-656-7368	BitCards 30 w. service rd. champlain ny 12919 514-274-1103	Caxton Publishing 10-14 bedford st. covent garden london, england wc2e-9he
Addison Information Systems 512 king st. east third floor toronto on m5a-1m1 416-864-9240	Artworx Software 150 n. main st. fairport ny 14450 716-425-2833 800-828-6573	Blue Chip 6740 eton ave. canoga park ca 91303	CBS Software one fawcett pl. greenwich ct 06836 203-622-2500
Adventure po box 3435 longwood fl 32750 305-862-6917	Ashton-Tate 10150 w. jefferson blvd. culver city ca 90230 213-204-5570	Boreas Products po box 16961 colorado springs co 80935 303-593-1274	Central Point 9700 s.w. capitol hwy. #100 portland or 97219 503-244-5782
Aegis Development 2210 wilshire blvd. suite 277 santa monica ca 90403 213-306-0735	Atarisoft po box 2943 so. san francisco ca 94080 408-745-2000		



INDEX TO PRODUCT ROUNDUP VENDORS

CGRS Microtech po box 102 langhorne pa 19047 215-757-0284	Comprehensive Software 2316 artesia blvd. suite g redondo beach ca 90278 213-214-1461	Computer Specialties po box 1718 melbourne fl 32902 305-725-6574 800-523-8275	CSM Software po box 563 crown point in 46307 219-663-4335
Chang Laboratories 5300 stevens creek blvd. san jose ca 95129	Compu-Draw 1227 golier house rochester ny 14620 716-454-3188	Computing! 2519 greenwich st. san francisco ca 94123 415-567-1634	CW Communications 80 pine st. peterborough nh 03458 603-924-9471
Cheatsheet Products po box 111368 pittsburgh pa 15238 412-781-1551	Compuuned po box 6427 salinas ca 93912 408-758-2436	Computron Business Systems 1139 s.w. 11th ave. portland or 97205 503-224-2220	Cyberian Software suite 140 11222 richmond houston tx 77082 713-558-8090
Cherry Lane Technologies 110 midland ave. port chester ny 10573	CompuServe po box 20212 5000 arlington centre blvd. columbus oh 43220 614-457-0802 800-848-8199	Computronics 50 n. pascack rd. spring valley ny 10977 800-431-2818	D&A Enterprises
City Software 735 w. wisconsin ave. milwaukee wi 53233 414-291-5125	Compute Publications circulation dept. po box 5406 greensboro nc 27403 919-275-9809 800-334-0868	Comspec 153 bridge land ave. unit 5 toronto on m61-2y6 416-787-0617	Data 20 23011 moulton pkwy. suite b10 redondo beach ca 90278 213-318-2561
Civil Computing suite 1 2111 research dr. livemore ca 94550 415-455-8086	Computer Accessories 1135 columbus bakersfield ca 93305 805-872-4488	Comtel Group 1651 e. edinger #209 po box 15485 santa ana ca 92705 714-953-6165	Data Base Research suite 310 12687 west cedar dr. lakewood co 80228
Clockwork Computers 4612 holly ridge rd. rockville md 20853 301-924-5509	Computer Case 3947 danford square columbus oh 43220 614-876-1784 800-848-7548	Condor Computer 2051 s. state st. ann arbor mi 48104 800-221-8479	Data Share 717 s. emporia wichita ks 67211 316-264-6118
CMS Software 2204 camp david mesuite tx 75149 214-289-0677	Computer Continuum 75 southgate ave. #6 san francisco ca 94118 415-755-1978	Consolink 1275 sherman dr. longmont co 80501 303-651-2014 800-525-6705	Datamost 19821 nordhoff st. northridge ca 91324 818-709-1202
Coast Bulletin Board 33175 oceanview dr. fort bragg ca 95437 707-964-4440	Computer Devices Int'l. 1345-a2 doolittle dr. san leandro ca 94577 415-633-1899	Construction Estimating 1713 sutter st. vallejo ca 94590 707-552-5476	Datasoft 19808 nordhoff pl. chatsworth ca 91311
CodeWriter 5605 w. howard st. niles il 60648 800-621-4109	Computer Ease rd #1, box 323 mertztown pa 19539 215-682-4657	Continental Software 11223 south hindry ave. los angeles ca 90045 213-417-3003	Daybreak Software 1951 grand ave. baldwin ny 11510 800-645-3739
Columbia Software 5461 marsh hawk po box 2235 columbia md 21045 301-997-3100	Computer EdiType suite 10a 509 cathedral parkway new york ny 10025 212-222-8148	Control Corp of America po box 2154 elkhart in 46515 219-293-3730	Digital Devices 430 - 10th st. n205 atlanta ga 30318 800-554-4878
Comal Users Group 6041 monona dr. madison wi 53716 608-222-4432 800-356-5324	Computer Helper po box 680 parkchester station ny 10462 212-652-1786	Correlational Systems 81 rockinghorse rd. rancho palos verdes ca 90274 213-8333462	Digital Marketing suite 6 23633 boulevard cir. walnut creek ca 94595 415-938-2880
Commodore 1200 wilson dr. west chester pa 19380 215-431-9100 800-247-9000	Computer Software Associates 44 oak st. the silk mill newton upper falls ma 02164 617-527-7510	Covox 675 d conger st. eugene or 97402 503-342-1271	Digital Research po box 579 160 central ave. pacific grove ca 93950
Commodore Publications 1200 wilson dr. west chester pa 19380 800-345-8112	Cramer po box 28606 columbus oh 43228	Digital Vision 14 oak st. suite 2 needham ma 02192 617-444-9040	INFO



INDEX TO PRODUCT ROUNDUP VENDORS

Disco Tech po box 1659 600 b st. santa rosa ca 94502 707-523-1600	Elliam Associates 24000 bessemer st. woodland hills ca 91367 818-348-4278	fischer america 175 route 46 w fairfield nj 07006 201-227 9283	Gosub of Slidell po box 1781 slidell la 70459 504-641-8307
Diversions 1550 winding way belmont ca 94002 415-591-0660	Ellis Computing 3917 noriega st. san francisco ca 94122 415-753-0186	FlipTrack Learning Systems 999 main / suite 200 glen ellyn il 60137 312-790-1117 800-222-flip	Greenwood Software 1214 washington the dalles or 97058 503-298-1114
DJ Software 10636 main st. suite 414 bellevue wa 98004 206-883-9257	En-Tech po box 881 sun valley ca 91352 213-764-6833	FS! Software po box 7096 minneapolis mn 55407 612-871-4505 800-328-0145	Hacker's Hardware po box 7933 san diego ca 92107 619-224-2147
DMC Software rt 1, box 364 clinton ia 70722 504-683-9897	Engrsoft box 193 benton ky 42025	Full Circle Software po box 1373 dayton oh 45401 513-223-2102	Handic Software fellowship business center 520 fellowship rd. mount laurel nj 08054 609-663-0660
Don Peterson 2645 e. southern a326 tempe az 85282	Entrepo 1294 lawrence station rd. sunnyvale ca 94089 800-231-0251	Future House po box 3470 chapel hill nc 27514 919-967-0861	Hartley Software 8615 locust ct. louisville ky 40222
Don't Ask Computer Software 2265 westwood blvd. suite b-150 los angeles ca 90064 213-477-4514	Epson America 2780 lomita blvd. torrance ca 90505 213-539-9140	FYI po box 26481 austin tx 78755 512-346-0133	Hayden 600 suffolk st. lowell ma 01854
Double E Electronics 12027 pacific st. omaha ne 68154 402-334-7870	Epyx 1043 kiel ct. sunnyvale ca 94089 408-745-0700	G&G Software 610 park blvd. austin tx 78751 512-458-5760	Hayden Books 10 mulholland dr. hasbrouck heights nj 07604 201-393-6300 800-631-0856
Dow Jones 800-345-8500	Everyware po box 3418 northridge ca 91323	Gamestar 1302 state st. sanata barbara ca 93101 805-963-3487	HBH Sales 225 w. main collinsville il 62234 800-448-5819
DynaComp 1064 gravel rd. webster ny 14580 716-671-6160 800-828-6772	EWDP Software po box 40283 indianapolis in 46240 317-872-8799	General Videotex 3 blackstone st. cambridge ma 02139 617-491-3393 800-544-4005	Hermes Products printer div. 1900 lower rd. linden nj 07036 201-574-0300
Eastern House 3239 linda dr. winston-salem nc 27106 919-748-8446	Excalibur Systems 1512 katella ave. anaheim ca 92805 714-385-1211	Generic Software po box 790 190 timber / dept. 20 marquette mi 49855 906-249-9801	HES 150 n. hill dr. brisbane ca 94005 800-227-6703
Easyware po box 32 hamilton mt 59840 406-821-4765	Executive Data Systems suite 116 290 interstate north atlanta ga 30339 800-272-3374	Genesis Computers 1444 linden st. bethlehem pa 18018 215-861-0850	Hi-Tech Graphics po box 446 tallmadge oh 44278 216-633-7966
Electronic Arts 2755 campus dr. san mateo ca 94403 415-571-7171	F-Systems po box 902 casselberry fl 32707	Genesis Software 1147 e. broadway / suite 45 glendale ca 91205 818-507-0221	Hilco Software 304 n. 17th st. mount vernon wa 98273 206-428-0475
Electronic Lab Industries 100 w. 22nd st. box 7167 baltimore md 21218 301-366-8138	F/22 Press po box 141 leonia nj 07605 201-568-6250	George Earl 1302 s. gen mc mullen san antoni tx 78237 512-434-3681	Himanme Programs po box 289 livingston mt 59047
Electronic Software Inc. 401 s. Woodward suite 441 birmingham mi 48011 313-258-5455	Fabtronics 1 quarry st. brockport ny 14420	Gold Disk 2179 dunwin dr. #6 mississauga on 151-1x2 416-828-0913	Holiday Software 4807 arlene st. san diego ca 92117 619-292-7766



INDEX TO PRODUCT ROUNDUP VENDORS

Hula Software po box 69 puunene hi 96784 808-877-5162	International Micro Systems 6445 metcalf shawnee mission ks 68202 913-677-1137	Koala Technologies 2065 junction ave. san jose ca 95131 408-946-4483 800-562-2327	Lisp Company 430 monterey ave. #4 los gatos ca 95030
Hutchcraft 1132 dryden rd. ithaca ny 14850 607-273-3682	Ion International 45 west 34th st. suite 407 new york ny 10001 212-239-0855	Kobetek Systems 1007 commercial st. new minas ns b4n-3c4 902-678-1541	Litek 4326 fish hatchery rd. grants pass or 97527 503-479-6633
Imagic 981 university ave. los gatos ca 95030 408-399-2200	Island Graphics 1 harbor dr. sausalito ca 94965	Kraft 450 w. california ave. vista ca 92083 619-724-7146 800-854-1923	Lynn Computer Service 6831 w. 157th st. tinley park il 60477 312-429-1915
Impact Information Systems 11205 alpharetta hwy. roswell ga 30076 404-475-3114	Jacobsen Software Designs 1590 e. 43rd ave. eugene or 97405 503-343-8030	Krell Software 1320 stony brook rd. stony brook ny 11790 516-751-5139 800-245-7355	M&M Software 140 university ave. suite 81 palo alto ca 94301 415-321-2722
Indus Systems 9304 deerling ave. chatsworth ca 91311 818-882-9600	JAL Software box 128 s. milwaukee wi 53172 414-762-5253	Kurta Corp. 4610 s. 35th st. phoenix az 85040	M'Soft 12027 pacific st. omaha ne 68154 402-334-7870
Infinity Software 536 currie dr. san jose ca 95123 408-629-6208	Jance Assoc. po box 234 east texas pa 18046 215-398-0434	Kustom Software 665 pacific view dr. san diego ca 92109 619-483-7119	M. Keryan po box 446 tallmadge oh 44278
Infocom 55 wheeler cambridge ma 02138	Jason-Ranheim 580 parrot st. san jose ca 95112 408-287-0259 800-421-7731	Kyan Software 1850 union street #183 san francisco ca 94123 415-7752923	Magicomp 2710 w. country club rd. philadelphia pa 19131 215-473-6599
Information Reduction Research 1538 main st. concord ma 01742 617-369-5719	JB Horton box 2426 bethlehem pa 18017 215-691-1147	Laboratory Microsystems po box 10430 marina del rey ca 90295 213-306-7412	Mannesmann Tally 8301 s. 180th st. kent wa 98032 206-251-5500
Inkwell 7677 ronson rd. #210 san diego ca 92138 619-268-8792	Juki 299 market st. saddle brook nj 07662 800-932-0590	Lattice po box 3072 glen ellyn il 60138	Manx Software po box 55 shrewsbury ny 07701 800-221-0040
Innovative Software po box 2797 mento park ca 90066	Jupiter Island 14 rock lane berkeley ca 94708 415-528-5265	Lawco po box 21-311 eagan mn 55121 612-431-2533	Mark of the Unicorn 222 third st. cambridge ma 02142 617-576-2760
Input Systems 15600 palmetto lake dr. miami fl 33157 305-252-1550	Kadak Products 206-1847 w. broadway vancouver bc 604-734-2796	Lexisoft po box 1950 davis ca 95617 916-758-3630	Marshall Software 19 south center st. marshalltown ia 50158 515-752-5096
Integrated-Software Systems po box 1801 ames ia 50010 515-233-2992	Kastel Technology 621 minna st. san francisco ca 94103 415-863-5636	LifeWare 23318 second ave. seattle wa 98121 206-322-5454	Marshview Software po box 1212 sackville nb e0a-3c0 506-536-1809
Intelligent Software box a san anselmo ca 94960 415-457-6153	Kattwinkel komputing 520 palm springs blvd. #502 indian harbour beach fl 32937	Limbic Systems 1056 elwell court palo alto ca 94303 415-424-0168	Mastersoft po box 1027 bend or 97709 503-388-7654
Interactive Mini Systems 5312 w. tucannon ave. kennewick wa 99336 509-783-3829	KiwiSoft Programs/Ace Software po box 9332 columbus ms 39705 601-328-9491	Lionheart po box 379 atburg vt 05440 514-933-4918	MDC & Associates 4573 heatherglen ct. moorpark ca 93021 803-529-5073
International Computer Product 346 n. western ave. los angeles ca 90004 213-462-8381			MegaSoft Ltd. po box 1080 battle ground wa 98604 206-687-5116

INDEX TO PRODUCT ROUNDUP VENDORS

Melcher Software
po box 213
midland mi 48640
517-631-7607

Melodian
115 broadway, suite 1202
new york ny 10006
212-406-5163

Metacomco
201 hoffman ave.
monterey ca 93904

MiccaSoft
406 windsor ln.
new braunfels tx 78130
512-629-4341

Michael Crick
2845 - 140th ave. n.e.
bellevue wa 98007
206-454-2788
800-421-3645

Micro Business Applications
12281 niccolet ave. s.
minneapolis mn 55337
612-894-3470

Micro Systems Development
11105 shady trail
suite 104
dallas tx 75229
800-527-5285

Micro-Ap
suite 206
7033 village parkway
dublin ca 94568
415-828-6697

Micro-W
1342-b route 23
butler nj 07405
201-838-9027

MicroBits Peripherals
3615 pacific blvd. s.w.
albany or 97321
503-967-9075

MicroComputer Accessories
5721 buckingham pkwy.
culver city ca 90230
800-521-8270

MicroComputer Telecom. People
3 bala plaza e. / suite 505
bala cynwyd pa 19004
215-668-0983

Microcomscribe
8982 Stimson Ct.
San Diego CA 92129
619 484-3884

Micrograms
1404 n. main st.
rockford il 61103
815-965-2464
800-338-4726

MicroMotion
suite 506
12077 wilshire blvd.
los angeles ca 90025
213-821-4340

Micron Technology
2805 e. columbia rd.
boise id 83706
208-383-4000

MicroPro
33 san pablo ave.
dept. 2000
san rafael ca 94903

MicroProse Software
120 lakefront dr.
hunt valley md 21030
301-667-1151

Microrim
3380 - 146th pl. s.e.
bellevue wa 98007
800-547-4000

MicroSignal Press
po box 388
goleta ca 93116

MicroSoft
10700 northrup way
bellevue wa 98004

MicroTask
suite 345
6040-a six forks rd.
raleigh nc 27609
919-851-9045

Microtechnic Solutions
po box 2940
new haven ct 06515
213-389-8383

MicroVations
5333 mission center rd.
suite 345
san diego ca 92108
619-291-2722

Midnite Software
subs. office
po box 1747
champaign il 61820
217-356-1883

Midwest Micro
311 - 72nd st.
kansas city mo 64114
816-333-7200

Midwest Software
box 214
farmington mi 48024
313-477-0897

Mimic Systems
11-12 Fort St., Floor 6E
Victoria BC V8V 4V2
800-663-8527

MindScape
3444 dundee rd.
northbrook il 60062
312-480-7667
800-221-9884

Mirage Concepts
4055 w. shaw #108
fresno ca 93711
209-227-8369
800-641-1441

Mountain View Press
po box 4656
mountain view ca 94040
415-961-4103

Muse Software
347 n. charles st.
baltimore md 21201
301-659-7212

Nanosec
4185 s. 300 west, suite 12
ogden ut 84403
801-392-0109

National MicroWare
suite 110
2102 business center dr.
irvine ca 92715
714-752-2344

National Public Domain
1533 avohill dr.
vista ca 92083
619-941-0925

Net Software
5763-203a st.
langley bc v3a-1w7
604-530-3161

NewArts
16783 beach blvd.
huntington beach ca 92647

NewTEK Industries
po box 46116
las angeles ca 90046
213-874-6669

Northwest Computer Algorithms
po box 90995
long beach ca 90809
213-426-1893

Nth Digit Solutions
3243 arlington ave. #195
riverside ca 92506

Nufekop
po box 4
shady cove or 97539
503-878-2246

Number Cruncher Stat Systems
865 e. 400th n.
kaysville ut 84037
801-546-0445

Oasis Systems
no. f
7907 ostrow st.
sao diego ca 92111
619-279-5711

Odesta
3186 doolittle dr.
northbrook il 60062
800-323-5423

Okidata
532 fellowship rd.
mt. laurel nj 08054
609-235-2600

Omnitronix
po box 43
mercer island wa 98040
206-236-2983

Open Systems
430 oak grove
minneapolis mn 55403
800-328-2276

Orange Micro
1400 n. lakeview ave.
anaheim ca 92807
714-779-2772

Origin Systems
340 harvey rd.
manchester nh 03103
603-644-3360

Palantir Software
suite 110
7701 wilshire place dr.
houston tx 77040
713-520-8221

Parabola
Dept. N8
PO Box 95844
Seattle WA 98145
206 524-1464

Paradigm Consultants
suite 1
39243 liberty st.
fremont ca 94538
415-796-0543

Parker Brothers
50 dunham rd.
beverly ma 01915
617-927-7600

Parsec Research
41805 Albrea St.
po box 1766
Fremont ca 94538
415 651 3160
800-633-6335



INDEX TO PRODUCT ROUNDUP VENDORS

Pascal & Associates
po box 350
chapel hill nc 27514
800-972-7225

PDS Sports
2807 oregon ct. #f-3
torrance ca 90503
213-212-7788
800-222-2601

Peachtree Software
8th floor
3445 peachtree rd.
atlanta ga 30326
800-554-8900

Pearlsoft
po box 638
wilsonville or 97070
503-682-3636

Penguin Software
830 - 4th ave.
po box 311
geneva il 60134
312-232-1984

Perfas
box 1010
sharon ct 06069
203-364-5420

Performance Micro Products
po box 370
canton ma 02021
617-828-1209

Peripheral Systems of America
2526 manana dr. suite 209
dallas tx 75220
214-956-7866

Personal Peripherals
merric park, suite 120
930 n. beltlin
irving tx 75061
214-790-1440

Playground Software
po box 3470
dept. c
chapel hill nc 27514
800-334-soft

PlayNet
po box 587
wynantskill ny 12198
800-playnet

Powerline Software
po box 635
new hartford ny 13413

PractiCorp International
the silk mill
44 oak st.
newton upper falls ma 02164
617-965-9870

Print Technik USA
bowitz international
3140 polaris ave, suite 8
las vegas nv 89102
702-362-3690

Pro-Line
755 the queensway east
unit 8
mississauga on 14y-4c5
416-273-6350

ProCode
15930 s.w. colony pl.
portland or 97224
800-547-4000

Professional Software
51 fremont st.
needham ma 02194
617-444-5224

Professor Jones
1940 w. state st.
boise id 83702
208-342-6939

Programmer's Institute
div. of future house
po box 3470
chapel hill nc 27514
919-967-0861

Progressive Peripherals
464 kalamath st.
denver co 80204
303-825-4144

Pterodactyl Software
200 bolinas rd. #27
po box 538
fairfax ca 94930
415-485-0714

Public Domain
5025 s. rangeline rd.
west milton oh 45383
513-339-1725

Quantum Leap
4214 arden way
san deigo ca 92103
619-297-1078

Quantum Software
po box 12716
lake park fo 33403
305-840-0249

Quelo
suite 173
2464 - 33rd ave. w.
seattle wa 98119
206-285-2528

QuickSilva
426 w. nakoma
san antonio tx 78216
512-492-8054

R & L Products
po box 26a89
los angeles ca 90026
213-662-6905

R.J. Brachman Associates
po box 1077
havertown pa 19083
800-cbus-c64

R.R. Software
po box 1512
madison wi 53701
608-244-6436

Radix Marketing
5223 w. 73rd st.
minneapolis mn 55435
612-831-1088

Raymond Reynolds
384 hyacinth st.
fall river ma 02720
617-673-4968

RealWorld
dover rd.
chichester nh 03263

Richardson & Associates
3039 andover
st. louis mo 63121
314-382-6721

Richvale Telecommunications
bayview plaza
10610 bayview
richmond hill on 14c-3n8
416-884-4165

Right On Programs
po box 977
huntington ny 11743
516-271-3177

Robin's Software
10349 zinran cir.
bloomington mn 55438
612-829-0483

Rocky Mountain Software
suite 1292
1280c newell ave.
walnut creek ca 94596
415-680-8378

Romaro Enterprises
box 227
streetsville postal station
mississauga on 15m-2b8

Roy Lipscomb
logic associates
1433 thome
chicago il 60660

Sachs Enterprises
box 1182
lake arrowhead ca 92352
714-337-2721

Scarborough Systems
55 south broadway
tarrytown ny 10591
914-332-4545
800-882-8222

Schnedler Systems
1501 n. ivanhoe st.
arlington va 22205
703-237-4796

Screenplay
po box 3558
chapel hill nc 27514
800-334-5470

Seikosha
consumer electronics div.
1330 w. walnut pkwy
compton ca 90220
213-603-9550

Sensible Software
suite 229
210 s. Woodward
birmingham mi 48011
313-258-5566

Sentient Software
po box 4929
aspen co 81612
303-925-9293

Sequential Circuits
3051 n. 1st st.
san jose ca 95134
408-946-5240

Shannon Software
po box 6126
falls church va 22046
703-573-9274

Sher-Tek
po box 6808
station j
ottawa on k2a-3z4

Showbiz
3012 central s.e.
albuquerque nm 87106

Siem Software Products
po box 17684
tampa fl 33682

Sierra On-Line
po box 485
coarsegold ca 93614
209-683-6858

Sight & Sound
po box 27
new berlin wi 53151
414-784-5850

Signal Computer Consultants
po box 18222
pittsburgh pa 15236
412-655-7727



INDEX TO PRODUCT ROUNDUP VENDORS

Skylight Software 22 miller st. belfast me 04915 207-338-1410	Softwave 156 drakes ln. summertown tn 38483 800-251-8066	Sublogic 201 w. springfield ave. suite 1001 champaign il 61820 217-359-8482	Tardis Software 2817 sloat rd. pebble beach ca 93953 408 625-4104
Small Computer suite 1200 230 w. 41st st. new york ny 10036 800-847-4740	Solid State 1125 e. hillsdale blvd. suite 104 foster city ca 94404 415-341-5606	Sunbear Systems suite 404 1095 market st. san francisco ca 94103 415-986-3184	TaxCalc Software 4210 w. Vickery blvd. fort worth tx 76107 817-738-3122
Smokey Mountain Software po box 1710 13 catatoga path brevard nc 28712 704-885-2516	Solidus International #204 - 4202 guide meridian bellingham wa 98226 206-734-3744	Sunburst Communications 39 washington ave. pleasantville ny 10570 914-769-5030 800-431-6616	Tech-Sketch 26 just rd. fairfield nj 07006 800-526-2514
SocrateSystems box 2571 grand rapids mi 49501 616-458-9293	Soniture 2146 paragon dr. san jose ca 95131	Superior Micro Systems po box 713 wheeling il 60090	Tecmar 6225 cochrane rd. solon oh 44139
Softaid po box 2412 columbia md 21045 301-792-8096	Sorcim 2195 fortune dr. san jose ca 95131 408-942-1727	SuperSoft po box 1628 1713 s. neil st. champaign il 61820 800-762-6629	The Guide 3008 s.e. licynta ct. portland or 97222 503-654-5603
SoftCraft suite 400 222 state st. madison wi 53703 608 257-3300 800-351-0500	Spectravideo 330 seldon court units 10/11 fremont ca 94539 415-490-4300	Synapse Software div. of broderbund 17 paul dr. san rafael ca 94903 415-479-1170	The Microperipheral Corp. 2565 - 152nd ave. n.e. redmond wa 98052 206-881-7544
Softlaw 132 aero camino goleta ca 93117 805-968-4364	Spinnaker 215 - 1st st. cambridge ma 02142 617-868-4700	Synthware PO Box 3746 Mankato MN 56002 507 345-7697	The Software Store 708 chippewa square marquette mi 49855 906-228-7622
SoftSync 162 madison ave. new york ny 10016 212-685-2080	Star Micronics 200 park ave. new york ny 10166 312-773-3717	Systat 600 main st. evanston il 60202 312-864-5670	The Source 800-336-3366
Software 66 3119 e. des moines meza az 85203	Star Point star route 10 gazelle ca 96034 916-435-2371	Systems Management Associates 3325 executive dr. raleigh nc 27609 919-878-3600 800-762-7874	Thorn EMI 1881 langley ave. irvine ca 92714 714-261-6600
Software Banc 661 massachusetts ave. arlington ma 02171 800-451-2502	Star Software Systems suite 103 20600 gramercy pl. torrance ca 90901 213-538-2511	T.I.E. Limited 2061 west mill rd. milwaukee wi 53209 414-352-4000	Timeworks 4444 lake cook rd. deerfield il 60015 312-948-9200
Software Design po box 570 1945 mitchell ave. waterloo ia 50704 319-232-1314 800-553-0002	Starside Engineering po box 8306 rochester ny 14618	T/Maker 2115 landings mountain view ca 94043	TLB Associates po box 414 findlay oh 45840
Software Group northway 10 executive park ballston lake ny 12019	Stoneridge Software 420 n. baltimore ave. #4 mount holly springs pa 17065 717-486-3274	Tab Books blue ridge summit pa 17214 717-794-2191	Total Software rt 1, box 1166 lopez island wa 98261
Software Toolworks suite 1118 15233 ventura blvd. sherman oaks ca 91403 818-986-4885	Strategic Simulations building a-200 883 stierlin rd. mountainview ca 94043 800-227-1617	Tailored Solutions po box 183 washington dc 20044 703-845-8576	Touch Technologies 609 s. escondido blvd. #101 escondido ca 92025 619-743-0494 800-525-2527
			TPUG 1912a avenue rd. suit 1 toronto on m5m-4a1 416-782-1861



INDEX TO PRODUCT ROUNDUP VENDORS

Transactor Publications
5000 steeles ave.
milton on 19t-3p7
416-876-4741

Transierra Technology
2616 monocott
po box 1028
madera ca 93637
209-674-4956

Tri-L Data Systems
1538 makaloa st.
honolulu hi 96814
808-945-7876

Trigram Systems
suite 66
3 bayard rd.
pittsburg pa 15213
412-682-2192

Tvtron
4959 sunset blvd.
los angeles ca 90027
213-660-7811

Ultrabyte
po box 789
la canada ca 91011
818-796-0576

Uni-Kool
909 williamson loop
grants pass or 97526
503-476-1660

Unique Wood Products
po box 52
mankato mn 56001
507-625-5123

United Microware Industries
3503-c temple ave.
pomona ca 91768
714-595-1351

Univair Systems
9024 st. charles rck rd.
st. louis mo 63114
314-426-1099

Useful Software
po box 54-h
scarsdale ny 10583

Valuation Systems
suite e-236
7130 s. lewis st.
tulsa ok 74136
918-496-7655

Value Plus Software
po box 731
springfield mo 65801

Value-Soft
9513 S.W. Barbur Blvd.
Dept. a-56
Portland OR 97219
503 246-0924

VetSoft
1716 pomona dr.
davis ca 95616

Visionary Software
25882 orchard lake rd.
suite 1-9 / dept info
framington hills mi 48018
313-471-4306

Votrax
consumer products group
500 stephenson highway
troy mi 48084
800-521-1350

Wallstreet Corp.
1438 s. 76th st.
omaha ne 68124
402-390-3372

Watcom Products
415 phillip st.
waterloo on n2l-3x2
519-886-3700

Waveform
1912 bonita way
berkeley ca 94704
415-841-9866

WICO
6400 w. gross point rd.
niles il 60648
312-647-7500

Wizards
po box 7118
the woodlands tx 77387

World Disk Drives
23501 ridge route dr.
laguna hills ca 92653
714-855-1761

Writing Consultants
suite 304
11 creek bend dr.
fairport ny 14450
716-377-0130

Xetec
3010 Arnold Rd.
Salina KS 67401
913 827-0685

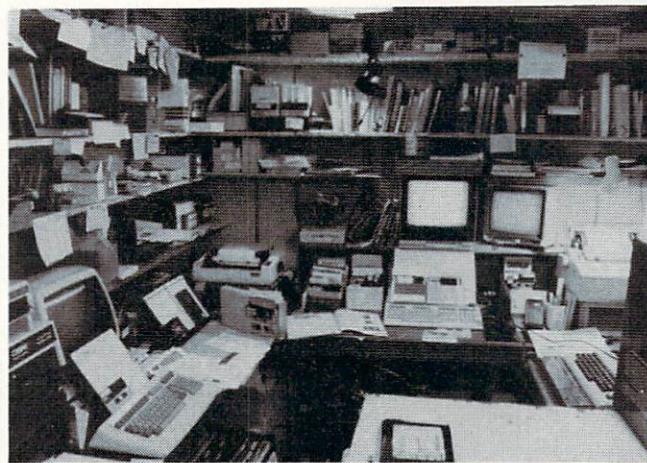
Xpert Software
8865 polland ave.
san diego ca 92123
619-268-0112

Zeigthy Data
po box 28355, 6/0 jc
columbus oh 43228
614-279-8271

Zinta Micro Systems
po box 946
el toro ca 92630

CONTEST

CONTEST



Pictured here is a shot of the editor's work area (about 1/4 of INFO's international secret headquarters). Some people say it's pretty outrageous, but we bet some of you use or have seen even more amazing installations. We are simply looking for some interesting photos of people's Commodore computing areas, and we are willing to give away a computer for the best photo, and (as usual) erg=boards with erg=card sets to the five best runners-up.

What kind of computer? Well, we found another **PLUS/4** in a drawer the other day. I thought we had gotten rid of them all, but here we go again. Actually, these make nice collectors' items, and may be worth some money someday, if you hang on to one & keep it in mint condition.

What kind of photos are we looking for? We'll know when we see it: the winning photo could be the tidiest, the most cluttered, the wildest, the most costly, the most equipment-laden, the most complicated, the most efficient-looking, or any number of other extremes which may exist. As usual, our choice will be sudden and final.

Send photos (and explanations, if needed) to:

INFO contest #9
po box 2300
Iowa City, IA 52244

Entries must be postmarked no later than **October 20, 1985**. Photos will become the property of INFO Publications, Inc., and will not be returned. Winners will be notified by mail. Prizes will be shipped UPS. Please write your name, street address (no PO Boxes please), and phone number on the back of your photo.

VOID WHERE PROHIBITED

PROMAL 1.1 Features

COMPILED LANGUAGE

- Structured language with indentation as syntax element
- Fast, 1-pass recursive compiler
- Simplified syntax requirements
- No line numbers, no terminators
- Long variable names (31 characters)
- Global, Local & Argument variables
- Byte, Word, Integer & Real data types
- Decimal or Hexadecimal number types
- Functions with passed arguments
- Predefined DATA of any type
- Procedures with passed arguments
- Built-in I/O library
- Arrays, strings, pointers
- Control Statements: IF, IF-ELSE, WHILE, FOR, CHOOSE, REPEAT-UNTIL, BREAK NEXT, INCLUDE, ESCAPE, REFUGE
- Bit-operators, shifts, casts
- Compiler I/O from/to disk or memory
- Variables at defined location
- Simple Machine Language interface
- Recursion fully supported
- Compilation errors trapped for Editor

EXECUTIVE

- Command oriented, with line editing
- Memory resident at all times
- Allows multiple user programs in memory at once
- Function key definitions
- Program abort and pause
- 22 Resident system commands, 8 user-defined resident commands, no limit on disk commands
- Prior command recall facility
- I/O Re-direction to disk or printer or from disk or keyboard
- File system management commands
- Memory map, set and display commands
- Batch job file support

EDITOR

- Full-screen, cursor driven
- Function key controlled
- Line insert, delete, search
- String search and replace
- Block copy, move, delete & write to/read from file
- Auto indent, undent support
- Edit-after-error facility

LIBRARY

- 45 Machine-language commands, memory resident at all times
- Call by name with arguments
- String handling (9 routines)
- Re-directable standard input and output files (STDIN, STDOUT)
- Formatted I/O (including Reals)
- Decimal & Hexadecimal I/O
- Block fill, Block move
- Block read, Block write
- Cursor control & line editing
- Data type conversion
- Random number function
- Real function support (in PROMAL): ABS, ATAN, COS, EXP, LOG, LOG10, POWER, SIN, SQRT, TAN



★ ★ SMALL BUSINESS RETAILERS ★ ★

ENHANCE PROFITS AND RETURN ON INVESTMENT. GAIN FAR GREATER CONTROL OF YOUR RETAIL OR MAIL ORDER BUSINESS with the 64 OR C128 CPU and the program.

CCI MERCHANTISER/tm.

- GET accurate recording of all cash, check, charge and credit card sales and cash payouts.
- PRINT sales receipts.
- SECURE maximum control of inventory. PRINT merchandise price labels.
- RECEIVE valuable sales analyses and management reports.
- RECORD check disbursements and deposits.
- PRODUCE P&L, balance sheet, and ledger, and accts. rec. reports.
- COST JUSTIFIED - save up to 10% on operational and accounting costs.
- MANY OPTIONS provide much more capability.

Available on INV/TRANS disk pair at \$399.00 and ACCOUNTING disk at \$100.00 for CBM 8050 and SFD 1001 disk drives. COMPLETE HARDWARE/SOFTWARE SYSTEM including Okidata printer and specially designed computer controlled cash drawer (\$374) available at \$2900.

★ ★ ★ HOME/SMALL BUSINESS ★ ★ ★ ACCOUNTING ★ ★ ★

GAIN VALUABLE CONTROL OF SEVERAL PERSONAL AND BUSINESS ENDEAVORS, with the

CCI BOTTOM LINE R/tm.

- DEFINE up to 100 endeavors such as small business corporations, home improvement, land/real estate, and childrens education. DEFINE ACCOUNTS you need for budget, actual income, actual expense, assets, liabilities and equity. RECEIVE full detailed reports on each by quarter, month and year to date. PRODUCE trial balance, balance sheet, P&L and Ledger. BALANCE CHECK BOOKS for up to several banks and PRINT CHECKS.
- THIS FULL FEATURED FLEXIBLE ACCOUNTING SYSTEM for home and small business management and tax data preparation is available on disk for only \$84.95 (1541 disk drive) or for \$154.95 (8050 or SFD 1001 disk drives).

★ ★ ★ SUPPORT/DELIVERY/TERMS ★ ★ ★

Full manuals are included. Support and help is available from CCI. Delivery in approximately 10 days via UPS. American Express charge cards are accepted, as well as UPS COD. and checks.



4612 Holly Ridge Road
Rockville, MD 20853
301-924-5509

C64-FORTH/79

for the

Commodore 64

Now the best for less

\$69.95

- C64-FORTH/79™ integrated professional development environment.
- See our reviews in INFO 64, MIDNIGHT, and NY CBMUG. C64-FORTH/79 is Commodore Approved.
- High performance 2D graphics extension including HRES multicolor line, circles, scaling, windowing, HRES character graphics, sprites, ram characters, 10 demo screens and more.
- Complete CBM compatible floating point package includes arithmetic, relational, SIN/COS, SQR, and more.
- Professional, 21 command, cursor screen editor with virtual memory, conditional macro assembler, and debug-decompiler facility.
- String extension for easy string processing.
- Compatible with CBM peripherals, popular third party peripherals and C64 operating setup/memory configurations.
- Easy to use 167 page manual written for the serious forth programmer with many examples, application screens, detailed command glossaries and compatible with "Going Forth", or "Discover Forth."
- "SAVE TURNKEY" automatically compiles bootable turnkey application programs for royalty free distribution.

(Commodore 64 and CBM are trademarks of Commodore)

TO ORDER

- Check, money order, bank card. COD's add \$1.65.
- Add \$4.00 postage and handling in USA & Canada.
- Mass. orders add 5% sales tax.
- Foreign orders add 20% shipping and handling.
- Dealer and Club Inquiries welcome.



PERFORMANCE

MICRO

PRODUCTS

P.O. Box 370
Canton, MA 02120
(617) 828-1209

ALLEGRO

Finally, a powerful music system with sequencer, editor, live synth, special effects and half an hour of great music all on one disk. Now direct from the developer for only \$39.95!

In your first session with ALLEGRO you'll learn to create music no other program can match. But that's only the start! Go on to learn how the pros do it, with the most advanced options ever packed onto a disk: echo, phasers, repeats, detuning, paddle & external inputs, 50 presets, over 5800 notes, variable vibrato & wah-wah, & more.

And that's not all! ALLEGRO turns your 64 or 128 into a live synthesizer keyboard, with 25 unique sounds you have to hear to believe!

"At last, a music program that a musician can really use!...A first class synthesizer...Best of all, you can add the music to your own BASIC and machine language programs with amazing ease...The documentation provided is thorough, clear, and friendly in tone...The first music program I've seen that I look forward to using after I've written the review." --HENRY JONES, COMPUTER ENTERTAINMENT, JULY 1985.

5 STARS! "Expert or novice: If you want to get serious about music and sound on the 64, you are going to love this system...Surprisingly easy to use, you can make complex sounds...that you just can't make with any other package...A technical work of art. The demo songs are truly stunning, the 74-page manual is worth the purchase price for its clear discussions of music and digital sound." --INFO 64, ISSUE #4.

"Used to produce the soundtracks for many commercial programs...ALLEGRO is definitely one of the best professional game design tools available." --MARK BROWN, INFO 64, ISSUE #5.

A.U.D.I.O. disks 1 & 2 are now available at \$8.95 each:

- 1 Allegro Sampler - over an hour of the best music by users.
- 2 Helpful hints, new presets, more great music, & surprises.

SPECIAL! Order Allegro & both AUDIO disks for only \$49.95!

PARABOLA

Dept. N8
P.O. Box 95844
Seattle, WA 98145
Phone (206) 524-1464

Please include \$3.00 postage & handling
on all orders. WA residents add 7.9%
sales tax. Dealer discounts available.

BACKUP PROTECTED SOFTWARE WITH COPY II 64™

From the team who first brought you COPY II PLUS (Apple), COPY II PC (IBM) and COPY II MAC (Macintosh) comes a revolutionary new copy program for the Commodore 64, COPY II 64!

- Copies most* protected software — automatically.
- Copies even protected disks in just 3½ minutes.
- Maximum of four disk swaps on a single drive.
- Copies half and full tracks.
- Requires just one 1541 drive on the Commodore 64.

Call M-F 8-5:30 (W. Coast time) with your   : 503/244-5782.
Or send a check (add \$3 s/h, \$8 overseas) to



\$39.95

**CENTRAL POINT
Software, Inc.**
9700 SW Capitol Hwy. #100
Portland, OR 97219

* We update Copy II 64 regularly to handle new protections; you as a registered owner may update at any time for 1/2 price! (To update, just send original disk and \$20.)

This product is provided for the purpose of enabling you to make archival copies only.

The OUTLET
1985
VOL. 1
COMMODORE 128
PERSONAL COMPUTER

FREE

COMMODORE'S NEW 128

West Chester, PA — Commodore's new C128 computer, as we have been told by our suppliers, will be delivered some time at the end of July. To help receive your first, we are accepting deposits and as soon as they are available, we will contact you with two phones to help you reduce the cost of the C128 computer. First, if you bring in your C128 at the time of purchase, we will give you \$64 for your used C64, work the other, which we feel will help give a better tax return next year, is to

donate your C64 to a school. We will have forms and envelopes on hand from several public and private schools to give you. Then when it's time to return, you will have a record to show the IRS of your most thoughtful gift.

COMPUTER OUTLET
Authorized Service Center
San Diego, CA. As of June 1, 1985, a Commodore Authorized Service Center. We now can offer directly from Commodore all parts needed for either needed fast reliable repairs. Our service charge is \$15.00 for either your C64 or 1541. All service work is guaranteed for a 45 day warranty. With your pre-paid service, just add \$10 more and a C64 or 1541 loaner is used to use until your system is fixed.

Computer Outlets Service Center has

Winner of C64 Drawing
Grand Prize of San Diego

Satellite TV

San Diego, CA — Satellite Outlets, a division of Katchuk Inc., opened its doors May 1, 1985 to service the growing need for quality satellite TV systems. Satellite Outlets carries the full line of Wilson Microwave systems. Satellite Outlets systems carry a Full Year Warranties.

If you come by with this newsletter before July 31, 1985, and see for yourself how great satellite TV systems are, you'll receive a FREE copy of Satellite TV & You. A great guide filled with the latest information concerning satellite TV and your Quantum news are limited, so come by early

Did You Get Your Free Copy?

Call or Write



(619) 282-6200

COMPUTER OUTLET

5861 Mission Gorge Road
San Diego, CA 92120
(619) 282-6200



Program Like a Pro! In the C-128 Mode



New!!



C-128 Update!

- The Commodore 128 Mode** Learn about memory organization and operating system of the C-128 and storage on the 1571 drive.
- Algorithms:** Learn the formulas for computer programming tasks.
- Assembly Language** Updated for machine language programming in the C-128 mode as well as C-64 mode. Monitor instructions.

\$14.95 Each at your favorite book or computer store or order direct. Mail or call. Master Card/Visa orders call (619) 484-3884 or (619) 578-4588 or Modem orders (619) 486-4694 Fridays-Sundays.

Dealer Inquiries invited.

Mail to:

microcomscrive
8982 Stimson Ct., San Diego, CA 92129



ULTRABYTE DISK NIBBLER with FREE BACKUP

"ULTRABYTE is a Great Copy Program"
"Overall Rating 9 of 10 - Most Effective"

INFO - 64, June 1985

- Copies 99% of protected software automatically
- Multiple - copy option. Make up to five copies of each original
- Copies 38 tracks including half tracks
- Optional starting & ending tracks to copy partial disks
- Does not hammer disk drive
- Tone sounds when disk swap is needed
- Fast and extremely simple to use
- Automatically copies all drive errors, extra sectors, false ID's and other protection measures

**\$ 39.95 FOR 2 COPIES OF THE
DISK NIBBLER**

plus \$ 4.00 shipping & handling. Mastercard, Visa, Check or M.O. Foreign orders or COD add \$ 2.00. Calif. add 6.5% (\$2.60) sales tax.

Additional backup copies are \$ 20.00 plus \$ 3.00 shipping.

For Commodore 64 & 1541 Disk Drive

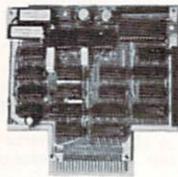
To Order Call 24 Hour Hot Line or Write

ULTRABYTE (818) 796-0576

P.O. Box 789 La Canada, CA 91011 USA

DEALERS & DISTRIBUTORS WANTED

DIADACS 1 " TAKE CONTROL WITH YOUR COMMODORE 64 16 CHANNEL 12 BIT A/D CONVERTER D/A CONVERTER 12BIT DIGITAL OUTPUT 10LINE DIGITAL INPUT 12LINE REAL TIME CLOCK



* 12 BIT RESOLUTION - A/D CONVERTER 30 Conversions per second. 0 to 10 volt input. Controlled from Basic or Machine Language. * 12 BIT DIGITAL TO ANALOG CONVERTER - 0 to 10 volt output. * CMOS REAL TIME CLOCK CALENDAR - Year, day, month, day of month, day of week, hour, minute, second. Battery Backup - Set it once and forget it. * DIGITAL INPUTS 12 TTL compatible digital inputs for monitoring switches, relay closures, burglar alarms, etc. * DIGITAL OUTPUTS 10 TTL compatible outputs provide for controlling relays, digital displays, turning on alarms. On board +/-15 volts DC @ 20mA generated. Connectors for connection to external equipment. DIADACS 1 comes complete with user's manual and software driver. Assembled and tested\$279.00 US Dollars. Add \$3.00 for shipping U.S.A. Send check, money order, or MC/Visa.

MINI DIADACS 1 B CHANNEL, 8 BITS A/D CONVERTER with 12 DIGITAL OUT and 12 DIGITAL IN.....\$99.95 US DOLLARS
FAST DIADACS 1 SAME AS DIADACS 1 BUT HAS ON BOARD ROM SPACE and 100 MICROSEC CONVERSION.....\$325.00 US DOLLARS

CONTROL MODE

New Software Package by TIN for the Commodore 64 and DIADACS 1. FEATURES: * DATA BASE MODIFICATIONS * ANALOG DEVICE DISPLAY * CONTACT INPUT DEVICE DISPLAY * CONTACT OUTPUT DEVICE DISPLAY * CONTACT OUTPUT CONTROL ** FUTURE SOFTWARE ENHANCEMENTS: * SEQUENTIAL CONTROL PACKAGE will allow the user to build complex control sequences for home security, energy management and many other applications. * ARCHIVE DATA STORAGE * REPORT GENERATION log of device values over several selectable time intervals using archival data. * TRENDING A plot of device value versus a selectable time interval.

CONTROL MODE I without future enhancements.....\$125.00 US DOLLARS

CONTROL MODE II with all enhancements.....\$250.00 US DOLLARS

KMM PASCAL

KMM PASCAL for Commodore by WILSERV provides an EDITOR/EDITOR/COMPILER, and a TRANSLATOR. KMM PASCAL is virtually a complete implementation of Jensen and Wirth PASCAL and provides all of the string functions supplied by USCO PASCAL.

KMM PASCAL on 1541 disk.....\$99.95 US DOLLARS

**CCBS
MICROTECH**

P.O. Box 102 • LANGHORNE, PA 19047

• (215) 757-0284

Night Owl POLAROID & OPUS
Lifetime Warranted
Diskettes
319-354-0003

SS/DD .75¢

DS/DD .85¢

Minimum order
of 25 diskettes.

CATALOGUE
SAMPLE DISK
\$.85 +
SHIPPING

**Hey, wake up!
Call us and save.
HRS. 6PM-MIDNIGHT MON.-FRI.**

COMPUSOFT PLUS

FREE SHIPPING FOR INFO-64 SUBSCRIBERS*

ALL PROGRAMS ON DISK UNLESS OTHERWISE INDICATED

INFO-64 RATED FOUR STARS OR BETTER

Castle of Dr. Creep	23	Flexidraw	122	Mirage DB Manager & Report Writer	67	Spelunker	23
Championship Lode Runner	26	Gumball	23	Murder by the Dozen	26	Spy vs. Spy	23
Chipwits	23	IFR Flight Simulator	23	PaperClip	60	SpellPack	35
Combat Leader	26	Institute	26	Print Shop	32	PaperClip/SpellPack	86
Consultant	67	International Soccer	20	Raid Over Moscow	29	Superbase-64	55
Dragonriders of Pern	29	Raid on Bungeling Bay	23	Scrabble	29	Zaxxon	29
Easy Script	38	Pitstop II	29			Zork I, II or III	29

INFO-64 NON-RATED

Adventure Construction Set	29	Fleet System II	55	Movie Maker	35	Racing Destruction Set	25
Ball Blazer	29	Fast Load (cart)	29	Music Construction Set	19	Return of Heracles	25
Beach-Head II	29	Felony	26	NATO Commander	26	Sargon III	35
Beyond Castle Wolfenstein	25	Gemstone Warrior	26	Nevada Cobol	40	Seven Cities of Gold	26
BI-80 Column	120	Ghost Busters	23	Nevada Fortran	40	Sky Travel	26
Blazing Paddles	26	Home-Pak	35	PFS: File	54	Space Shuttle	23
Cave of the Word Wizard	26	Mail Order Monsters	25	PFS: Report	49	Stunt Flyer	27
Conan	29	Mask of the Sun	29	Pitfall II	23	SwiftCalc	35
Crime and Punishment	26	Millionaire	35	Print Shop Library I	20	Typing Tudor III	29
Cutthroats	26	Mind Prober	23	Questprobe: Hulk	26	Whistlers Brother	23
Evelyn Wood's Dynamic Reader (speed reading)	35	Simon's Basic	24	Insta-Speed (basic language compiler)	48		

Send Orders To: **COMPUSOFT PLUS**, P.O. Box 91155, Los Angeles, CA 90009-1155

Add \$3.00 shipping per order (\$5.00 AK, HI, APO, FPO). INFO-64 subscribers no shipping charge. No foreign orders, NO COD. CA residents add 6.5% sales tax. We accept VISA, MC (include name, card #, exp. date), M.O., or cashier's check. Personal checks delay shipping 4 weeks while clearing. Include ship to name, address (sorry no P.O. boxes). All sales final. Defective items replaced with same item if return authorization requested within 2 weeks of shipping date. No returns accepted without RA#. Prices and availability subject to change without notice.

NO ADDITIONAL CHARGE FOR VISA OR MASTERCARD.

*Send us the INFO-64 address label (offer expires October 31, 1985).

Give Yourself That Extra Edge in the Market Place!

Easy to Use!

STOCTRACK™

A Personal Broker

An Easy to Use Software Package for Market Analysis of Stock Trends



Menu Driven!

STOCTRACK Performs These Unique Functions:

- Tracks, lists and plots all performance data!
- Accepts data for unlimited number of stocks!
- Plots closing prices and volume bar graphs for each stock!
- Computes moving averages for any time period!
- Easy to use - Menu driven!
- Plots closing prices and moving averages on the same graph!
- Color indicators assist in locating buy/sell transition points!
- Prints all graphs and data - compatible with most dot matrix and daisy wheel printers!

Not Just for Investors

Also a Great Educational Tool for Students!

Only \$29.95
For Commodore 64™
Disk Drive Only
Dealer Inquiries Invited

D.C. Residents
Add 6%

STOCTRACK is a trademark of Thomas P. Gross.
Commodore 64 is a trademark of Commodore
Business Machines.

Send Check or Money Order To: Dynamax, Inc.

22 15th Street, N.E., Washington, D.C. 20002

(202)546-2412

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

CARD NUMBER _____ EXP. DATE _____

MC

VISA

**COMMON STOCK ANALYSIS
WITH YOUR COMPUTER
WALLSTREET MICROSCOPE**

Available for: Commodore-64;
Apple II+, II E, II C; IBM and Compatibles

- Stocks Judged by 10 Criteria
- 5 By Price (Cap Gains Potential)
- 5 By Financial Stability (Safety)
- Criteria Values May Be Set By User

Eight Computer Programs
Though Documentation
Comes Complete With
1500 Company Data Base
\$135.00

[Updates Available By Subscription]

- Search Capabilities • Market Averages
- Single or Batch • Graphics Processing

**DEMONSTRATION DISK—\$10
(\$13—C.O.D.)**

Order Demo Direct or From Your Dealer.
(Dealer Inquiries Invited)

"As a Powerful Financial Planning Tool, Wallstreet Microscope Is Top-Notch . . . Wallstreet Microscope Gives You Your Money's Worth And More—As a Reliable, Computerized Stock Manager and Forecaster."

(The Book of Commodore 64 Software 1985)

WALLSTREET CORP.
Call: (402) 390-3372 (24 Hrs.) for C.O.D.
Write: 1438 South 76th Street
Omaha, NE 68124

FREE SHIPPING

Ultima IV (Avail Sept) \$38.95
Ultima III 38.95
Beach Head II 26.95
Spy Hunter 29.95
Kennedy Approach 23.95
Super Huey 14.95
Spy vs Spy 20.95
Bank Street Writer 32.95
Questron 26.95
Amazon 22.95
Dragon World 22.95
Fahrenheit 451 22.95
Rendezvous with Rama 22.95
Shadowkeep 22.95
Print Shop Graphics 17.95
Sky Fox 26.95

CONCEPT ONE

Seven Cities of Gold \$26.95
On Court Tennis 20.95
On Field Football 20.95
On Track Racing 23.95
Star League Baseball 20.95
Bank St "Music Writer" 32.95
Charlie Brown ABC's 20.95
Peanuts Picture Puzzlers 20.95
F-15 Strike Eagle 23.95
Fleet System II 50.95
Hitchhiker Guide 23.95
Homeword 32.95
Homeword Speller 23.95
Karateka 20.95
Mail Order Monsters 23.95
Summer Games II 26.95

PAPERTAIL

1015 5TH STREET
MARYSVILLE, CA. 95901
(916) 741-2455

**COLORED COMPUTER PAPER AND
MATCHING ENVELOPES**

SEVEN BRILLIANT COLORS TO CHOOSE FROM
CHERRY RED CALIFORNIA BLUE
BRIGHT ORANGE GOLDENROD
CANARY YELLOW KELLY GREEN
LIME GREEN

OUR PAPER IS STANDARD PIN FEED,
PERFORATED EDGES . . . CLEAN, CRISP,
RAZOR-SHARP WHEN TORN.

**SAMPLE PACK ANY FOUR COLORS
(200 SHEETS) PRICE \$24.95**

COLORED PAPER	PRICE PER COLOR
100 SHEETS	\$14.95
250 SHEETS	\$29.95
500 SHEETS	\$49.95
1000 SHEETS	\$64.95
5000 SHEETS	\$62.95

(PER 1000)

COLORED ENVELOPES

REGULAR SIZE FITS 8 1/2 x 11 SHEET
FOLDED INTO QUARTERS ("FRENCH FOLD")

50 EPS	\$8.95
100 EPS	\$12.95
250 EPS	\$20.95
500 EPS	\$32.95
1000 EPS	\$52.95

LARGE #10 BUSINESS SIZE

50 EPS	\$10.95
100 EPS	\$14.95
250 EPS	\$22.95
500 EPS	\$34.95
1000 EPS	\$53.95

DEALERS AND DISTRIBUTORS WELCOME

NO HIDDEN COSTS

One on One \$26.95
Paperclip/Spell 75.95
Pinball Construction 26.95
Print Shop 29.95
Realm of Impossibility 23.95
Sky Travel 23.95
VIP Term 26.95
WICO Joystick (Bat Hand) 20.95
WICO 3 way 23.95
WordPro 3 (Proline) 32.95
Archon II 26.95
Blue Max 2001 20.95
Creative 3 pack 72.95
Doodle 26.95
Adventure Construction 32.95
Mach 5 23.95

Send check or money order (NO CASH PLEASE) to: CONCEPT ONE, P.O. Box 1911, Wausau, Wisconsin 54401. COD add \$2.50 or call 715-359-5592, 24 Hours. VISA & MASTERCARD add 2 1/2 % - NO MINIMUM ORDERS - NO HIDDEN COSTS. BBS 715-842-4850 for on-line ordering.

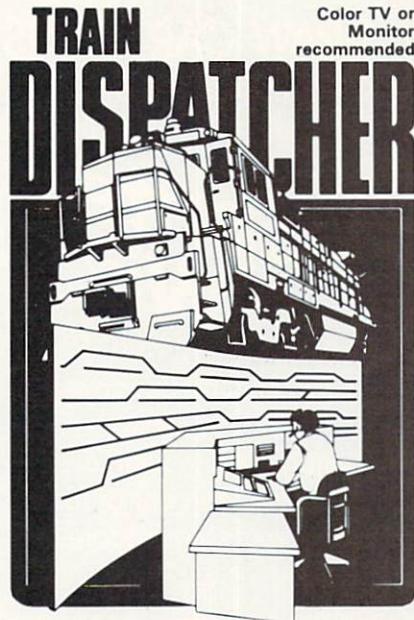
2

EXCITING COMPUTER SIMULATIONS

from

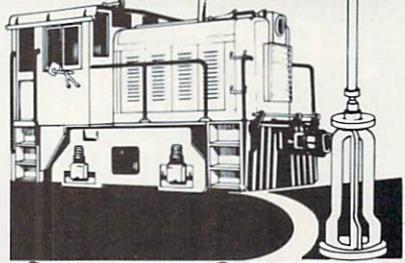


TRAIN DISPATCHER and LOCOMOTIVE SWITCHER are available from SIGNAL COMPUTER CONSULTANTS, Ltd., P.O. Box 18222, Dept. 14, Pittsburgh, PA 15236, or call (412) 655-7727. US and Canada add \$1.00 postage and handling (\$2.50 foreign) for each game ordered. PA residents include sales tax. Use Master Card, VISA, moneyorders or checks drawn on US or Canada banks. Master Card and Visa show card number, expiration date and signature. We guarantee and support our products. Free replacement or full refund for 30 day warranty period. Dealer inquiries invited.



Color TV or
Monitor
recommended.

LOCOMOTIVE 42 27



SWITCHER

LOCOMOTIVE SWITCHER brings an operating railroad layout to the COMMODORE 64 computer screen. The microlayout consists of mainline, six switches and seven loading areas. Sophisticated car-movement logic simulates train movements to a degree not possible on "real" model railroad layouts.

LOCOMOTIVE SWITCHER operates in two modes. As a FLAT YARD cars must be "spotted" at assigned loading docks - or pulled out to the mainline. In HUMP YARD mode the layout becomes a mini-classification yard. Operator performance is tracked and scored based on number of cars spotted, train moves, car damage and operating time.

For COMMODORE 64 only (disk or tape) at \$30.00. Manual and keyboard template included.

IBM PC
ATARI
APPLE
COMMODORE

WHY PAY TOP \$

SAVE 20% to 60%
OFF RETAIL

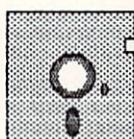
SUBLOGIC
INFOCOM
CBS
MICROPROSE
BRODERBUND

***** SPECIALS ***** BATTERIES INCLUDED

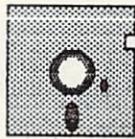
SG-10C.....\$ 265
FASTLOAD.....\$ 25
FLIPPY-FLOPPIES
(10 PAK).....\$ 10
C-128 COMPUTER.....\$ CALL

PRINTSHOP.....\$ 27
PANASONIC 1091...\$ 269
COMPUSERVE
STARTER KIT...\$ 19
VIZASTAR.....\$ 89

American Computer operates it's own BBS for Electronic Shopping, New Products Information, and other features. The system is available Monday-Friday 5pm-9am and 24 hours on Weekends. Call (313)/547-0773. CALL or WRITE for a FREE Price List TODAY !



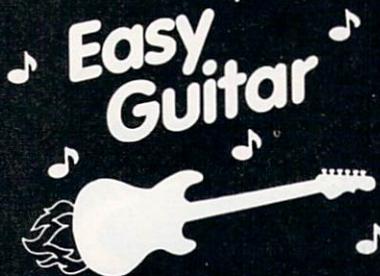
AMERICAN COMPUTER WAREHOUSE



P.O. BOX 381
CLAWSON, MICHIGAN 48017
313/547-0772



Learn to
PLAY THE GUITAR
the EASY way with



Order today and be on your
way to fame and fortune!
Easy Guitar is the equivalent
of dozens of guitar lessons.

C-64 disk

\$29.95 plus \$2.00 shipping & handling

VISA and MC Accepted
or send check or money order to:



10636 Main St., Suite 414, Bellevue, WA 98004

(206) 883-9257

Dealer inquiries welcome

DRAW CARTOONS
Create Exciting Graphics
Gain control of your Sprites with



Now you can become the
artist you really are!

Simply plug in your joystick
and you can get graphic
with your Commodore-64.

C-64 disk

\$20.00 plus \$2.00 shipping & handling

M&M FORTH

*There's more to programming
than BASIC.*

A complete disk-based Forth
system for the Commodore 64
for only **\$27.95!**

Write fast programs, write
structured programs, and have
fun writing them.

This powerful Forth system
includes these features:

- * Forth-79 Standard.
- * A fast screen editor that scrolls to display 64 columns by 16 rows (user can select colors).
- * Disk-based virtual memory—fastest of any C64 Forth system.
- * 166 screens per disk using random sector reads and writes.
- * Save compiled code, including your dictionary extensions.
- * Simple access to basic C64 sound and graphics features.
- * A Forth 6502 assembler.
- * IRQ interrupt handler.
- * Compatible with MSD single and double disk drives as well as Commodore 1541 drives.
- * Supports MSD and Batteries Included IEEE interfaces.
- * Supports Commodore 1525 (or compatible) printers and interfaces.
- * No license or royalty fees.
- * Disk backup utility program included.
- * Source code and listings available for the complete system. (Price \$55.00 U.S. Does NOT include the binary Forth package described here.)

\$27.95 including shipping
& handling
(Cal. residents add sales tax.)



BOOKS READ
SUE
JOHN
BILLY
SARAH

HELPERS
ATTENDANCE CALENDAR
WATER PLANTS
FEED FISH
MIKE STEPHANIE
KYLE CHRISTY

BOOK REPORT
DUE 10/25/85

THE BANNER MACHINE (INCLUDING 5 FONTS) \$49.95
OPTIONAL FONT DISK (INCLUDING 4 FONTS) \$39.95

800 762-5645
13645 Jefferson Davis Hwy., Woodbridge,
VA 22191. Info. call (703) 491-6323
In Canada: APRAN INC.
12829 Parchmont Ave.
Scarborough, ON
(416) 443-8843

Cardinal Software

\$34.95 GINGER THE CAT
SHAPES, COLORS, LETTERS,
NUMBERS AND SIMPLE ARITHMETIC

Ginger delights children. Basic
skills are mastered with pleasure. Music, bright colors
and movement create a happy
environment in which your child
can learn basic skills.

\$34.95
MATH DOUBLE DRILL
5 \times 6 = ?
12144
145
596
273
185
???

Grades K-6 Color animation and
snappy tunes turn learning math facts
into an exciting challenge.
Addition (1-5 digits, 24 addends) Subtraction
(1-2 digit) multiplication (0-12) Division (1-12)
Includes timer that can be set according
to ability. Tutor mode to aid a beginner.
Sound can be turned off for use in the
classroom. Sound signals a wrong answer,
correct answer will then be displayed.
2 GAMES: ADDITION TUTOR
MATH POP QUIZ

The M&M Software Company

Phone orders (MC/Visa):
800-227-2400 Ext. 950
800-772-2666 Ext. 950
(within California)

Orders & Information: 415-321-2722

Or write to:

140 University Ave., Suite 81
Palo Alto, CA 94301

COMAL INFO

If you have COMAL— We have INFORMATION.

BOOKS:

- COMAL From A To Z, \$6.95
- COMAL Workbook, \$6.95
- Commodore 64 Graphics With COMAL, \$14.95
- COMAL Handbook, \$18.95
- Beginning COMAL, \$22.95
- Structured Programming With COMAL, \$26.95
- Foundations With COMAL, \$19.95
- Cartridge Graphics and Sound, \$9.95
- Captain COMAL Gets Organized, \$19.95
- Graphics Primer, \$19.95
- COMAL 2.0 Packages, \$19.95
- Library of Functions and Procedures, \$19.95

OTHER:

- COMAL TODAY subscription, 6 issues, \$14.95
- COMAL 0.14, Cheatsheet Keyboard Overlay, \$3.95
- COMAL Starter Kit (3 disks, 1 book), \$29.95
- 19 Different COMAL Disks only \$94.05
- Deluxe COMAL Cartridge Package, \$128.95 (includes 2 books, 2 disks, and cartridge)

ORDER NOW:

Call TOLL-FREE: 1-800-356-5324 ext 1307 VISA or MasterCard ORDERS ONLY. Questions and Information must call our Info Line: 608-222-4432. All orders prepaid only—no C.O.D. Add \$2 per book shipping. Send a SASE for FREE Info Package or send check or money order in US Dollars to:

COMAL USERS GROUP, U.S.A., LIMITED
5501 Groveland Ter., Madison, WI 53716

TRADEMARKS: Commodore 64 of Commodore Electronics Ltd.; Captain COMAL of COMAL Users Group, U.S.A., Ltd.

PEEK A BYTE™ 64

DISK MECHANIC



New!
VERSION
2.0

INVESTIGATE
PROTECTED
DISKS!

PEEK A BYTE 64 Now with the DISK MECHANIC is the most powerful disk editor and memory utility available for the Commodore 64 and 1541 disk drive.

- Read or write sectors hidden by DOS header errors
- Read or write up to track 40 - half tracks too!
- Fast format single or multiple tracks up to track 40
- Over 50 functions - includes all PEEK A BYTE features
- Complete manual for beginners and pros
- Disk copy program included at no extra charge!
- Continuing program update policy.

To order send check or money order, US funds. Foreign orders add \$4 for shipping and handling. Florida residents add 5% (or 6%) sales tax. COD orders add \$2 plus postage and COD charges. Phone COD orders call: (305) 840-0249.

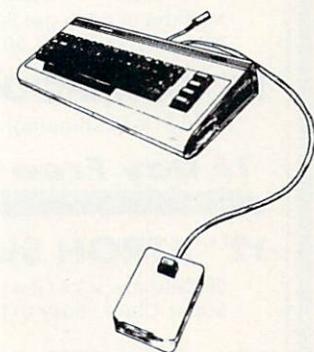
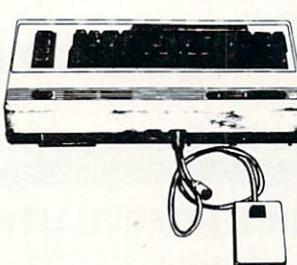
ALL THIS FOR
ONLY
\$35
U.S. Post Paid

PEEK A BYTE is a trademark of Quantum Software.

QUANTUM SOFTWARE

P.O. Box 12716, Dept. 64, Lake Park, Florida 33403

PRINC BUTTON



RESET SWITCH

Only \$19.95



BASIC RECOVER PROGRAMS INCLUDED
UNLOCKS "FROZEN" PROGRAMS
PLUGS INTO THE SERIAL AND USERPORT
ALLOWS FULL USE OF BOTH PORTS
EXTENDS THE LIFE OF YOUR COMPUTER
COMPATIBLE WITH COMMODORE 64, 128 AND VIC 20
1 YEAR WARRANTY

Mail Check Or Money Order To:

MICROVATIONS
5333 MISSION CENTER ROAD
SUITE 345
SAN DIEGO, CA 92108

CA Residents Add 6% Sales Tax
Shipping: Add \$1.75 For Ground
COD \$3.00 2nd Day Air

NAME _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____

Dealers Welcomed Phone (619) 291-2722



ACADEMY
SOFTWARE



Shipping and handling \$1.00 per
order. CA residents add 6% tax.

P.O. Box 6277 San Rafael, CA 94903 (415) 499-0850

COLOR MONITOR SALE!!!



(Premium Quality)

- Built in Speaker and Audio
- Front Panel Controls
- For Video Recorders
- For Small Business Computers
- Apple - Commodore - Atari - Franklin - etc.



(Premium Quality)

- Beautiful Color Contrast
- High Resolution
- Separated Video
- Sharp Clear Text
- Anti-Glare Screen
- 40 Columns x 24 Lines
- Supports 80 Columns

List \$329⁰⁰

13" Color Computer Monitor

Sale \$169.95*

*Connecting cable \$9.95

13" RGB & COMPOSITE MONITOR

List \$399.00

Must be used to get 80 columns in color with 80 column computers (C128 & Atari ST). (add \$14.50 shipping)

Sale \$279.00*

14" COMMODORE 1702 COLOR MONITOR

List \$299.00

Sale \$179.00*

15 Day Free Trial - 90 Day Immediate Replacement Warranty

12" XTRON SUPER HI-RESOLUTION MONITOR

Sale \$109.95*

80 Columns x 24 Lines, Super Hi-Resolution 1000 lines Green or Amber Super-Clear "Easy to Read" text with special anti-glare screen! (Ltd. Qty.) List \$249.00

12" ZENITH HI-RESOLUTION GREEN OR AMBER TEXT DISPLAY MONITOR

Sale \$89.95*

80 Columns x 24 Lines, Hi-Resolution, crisp clear easy to read text with anti-glare screen! A MUST for word processing. (Ltd. Qty.) List \$199.00

12" MONITOR GREEN OR AMBER TEXT

Sale \$69.95*

80 Columns x 24 Lines, easy to read up front controls (Ltd. Qty.) List \$159.00

* Connecting cable \$9.95

• LOWEST PRICES • BEST SERVICE IN U.S.A. • ONE DAY EXPRESS MAIL • OVER 500 PROGRAMS • FREE CATALOGS

Add \$10.00 for shipping, handling and insurance. Illinois residents please add 6% tax. Add \$20.00 for CANADA, PUERTO RICO, HAWAII, ALASKA, APO-FPO orders. Canadian orders must be in U.S. dollars. WE DO NOT EXPORT TO OTHER COUNTRIES, EXCEPT CANADA.

Enclose Cashiers Check, Money Order or Personal Check. Allow 14 days for delivery, 2 to 7 days for phone orders, 1 day express mail!

VISA — MASTER CARD — C.O.D.
No C.O.D. to Canada, APO-FPO.

PROTECTO

We Love Our Customers

22292 N. Pepper Rd., Barrington, Illinois 60010

312/382-5244 to order

GIANT PRINTER SALE!!

List \$399.00

10" Printer

\$179.00

1 Year Warranty

120-140 CPS

Premium Quality

10" Comstar 10X — This Bi-directional Tractor/Friction Printer prints standard sheet 8½" x 11" paper and continuous forms or labels. High resolution bit image graphics, underlining, horizontal tab setting, true lower descenders, with super scripts and subscripts, prints standard pica, compressed, expanded, block graphics, etc. Fantastic value. (Centronics parallel interface.)

List \$399.00. Sale \$179.00.

List \$499.00

10" Printer

\$229.00

1 Year Warranty

150-170 CPS

High Speed

10" Comstar 160+ High Speed — This Bi-directional Tractor/Friction Printer combines the above features of the 10" Comstar 10X with speed (150-170 cps) and durability. Plus you get a 2K buffer, 96 user definable characters, super density bit image graphics, and square print pins for clearer, more legible print (near letter quality). This is the best value for a rugged dependable printer. (Centronics parallel interface.)

List \$499.00. Sale \$229.00.

List \$599.00

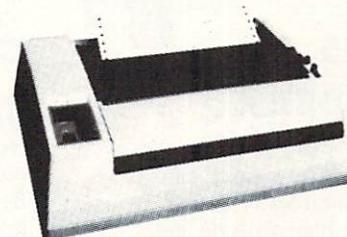
10" Printer

\$259.00

Lifetime warranty*

165-185 CPS

High Speed & Letter Quality

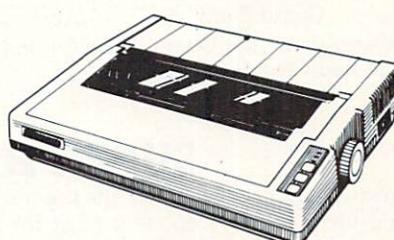


10" Comstar 2000 — The ultimate printer has arrived! This Bi-directional Tractor/Friction Printer gives you all the features of the Comstar 160 plus higher speed (165-185 cps), 256 downloadable characters, proportional setting, external dark printing mode and a *lifetime printhead warranty. PLUS ...

List \$599.00

15½" Printer

\$249.00



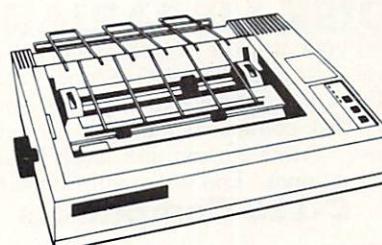
15½" Comstar 15X — Has all the features of the 10" Comstar 10X plus a wider 15½" carriage and more powerful electronics to handle large ledger business forms! (Better than FX-100). The 15½" Comstar 15X also prints on standard size paper and continuous forms and labels. Fantastic value. (Centronics parallel interface.)

List \$599.00. Sale \$249.00.

List \$699.00

15½" Printer

\$299.00



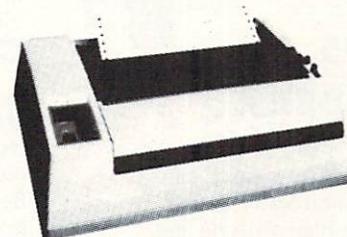
15½" Comstar 160+ High Speed — This Bi-directional Tractor/Friction Printer has all the features of the 10" Comstar 160+ High Speed plus a wider 15½" carriage and the heavy duty electronics required for today's business loads. You can use large ledger business forms as well as standard sheets and continuous forms and labels. This is the best wide carriage printer in the U.S.A. (Centronics parallel interface.)

List \$699.00. Sale \$299.00.

List \$599.00

10" Printer

\$259.00



With the flip of a switch you can go into the letter quality mode which makes all your printing look like it came off a typewriter. Turn in term papers, do articles or just print programs. Have the best of letter quality and speed in one package. Fantastic printer (Centronics parallel interface.)

List \$599.00. Sale \$259.00.

• **15 Day Free Trial — 1 Year Immediate Replacement Warranty**
Parallel Interfaces

Commodore-64, VIC 20 — \$39.00

Atari — \$59.00

Apple II, II+, IIe — \$59.00

Add \$10.00 for shipping, handling and insurance. Illinois residents please add 6% tax. Add \$20.00 for CANADA, PUERTO RICO, HAWAII, ALASKA, APO-FPO orders. Canadian orders must be in U.S. dollars. WE DO NOT EXPORT TO OTHER COUNTRIES, EXCEPT CANADA.

Enclose Cashiers Check, Money Order or Personal Check. Allow 14 days for delivery, 2 to 7 days for phone orders, 1 day express mail!

VISA — MASTER CARD — C.O.D.

No C.O.D. to Canada, APO-FPO.

PROTECTO

We Love Our Customers

22292 N. Pepper Rd., Barrington, Illinois 60010

312/382-5244 to order

CREATED BY USERS FOR USERS

PROTECTION REVEALED

Take command of your software. End the spiral of buying copy-programs. *The Protection Revealed Handbook* unravels the puzzle of software protection. For authors and users — become a master of illusion. Learn how to protect or un-protect your software. Includes a large section on successful BASIC program security. Covers the latest evolution of copy protection techniques. Topics include:

Disk Errors	De-Compilers	Extra Sectors	Nibble Counting	Header Modification
Compilers	Density Changes	Gap Bytes	DOS Protection	Non-Standard Sectors
Half Tracks	Nibble Back-Up	Guard Band	Auto-Loaders	And much, much more

Reveals the mystical professional trade secrets of the Commodore 64 and 1541 Disk Drive. A disk containing 21 utility programs is included. This is the book for everyone!

Book & Disk



\$19.95

THE PROTECTOR

A menu-driven collection of programs which promises to mystify the curious. Basic file *Encryption* and *Decryption* are the heart of this system. Also includes autoboot maker, write and un-protect disks, fast disk eraser, ML to data statements, sector editor, relocates files to new location in memory, un-new scratched files, plus much more.

A dozen plus programs — the perfect companion for the book, *Protection Revealed*.

Disk **\$19.95**

BRAND X — THE DISK LIBRARIAN

Has your disk library grown? Can't find your favorite program when you need it? Are you tired of odd labels? If you answered "yes" to any of the above, you need *Brand X*. *Brand X* can catalog 40-plus disks in one file — this is over 4000 programs. Save the catalog file, add to, change, or delete when you want. Get rid of duplication and save disk space. Identifies 14 types of files. Disk commands include: format (in 10 seconds), validate, scratch, change disk ID, change disk name, plus directory. Prints custom disk labels (great for the generic user), lists used ID's and disk names, catalogs in one, two, or three columns. End disk confusion with *Brand X, The Disk Librarian*.

Disk **C-128 Compatible** **\$19.95**

PROGRAMMER'S KIT

Over 150 ready-to-run subroutines. Easy instructions on how to incorporate into your own programs. Why re-invent the wheel? Your time is valuable. Some of the types included are: TI\$, protection, disk operation, printer operation, sorts, joy-ticks, input, graphics, complete alphabets, graphic screen prompts, sound, random choice. Program the easy way. Full documentation included.

C-128 Compatible **\$18.95**

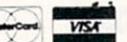
ATTENTION GUN RELOADERS: BALLISTICS

Check trajectory for all popular rifle bullets by weight, caliber, or style. Includes tables for *Hornady* and *Speer* bullets, plus others. Allows for standard metro or high altitude and low temperatures. Prints out table of trajectory (choice of range increments), bullet drop, wind deflection, and more. If you reload your own shells, this program is a must!

C-128 Compatible **\$39.95**

VALUE-SOFT

9513 S.W. Barbur Boulevard, Dept. A-56
Portland, Oregon 97219 (503) 246-0924



**V-20, C-64, C-16,
Plus 4, C-128** **\$29.95**

Include check or money order — or charge your order to your VISA/MasterCard account.

Add \$2 shipping on orders under \$100 total. All orders over \$100 will receive FREE shipping.

Your order will be shipped within 48 hours.

SUPER HELP

This is the programmer's friend — three aids for the price of one — a must for all users:

1. Poster size (21x25) screen and color memory map. Hang on the wall and never hunt for that *poke* location again.
2. One of the most complete C-64 memory maps available today. Compact and easy to read. Instructions included.
3. Set of 18 cheat cards. Includes: 1541 disk drive, DOS wedge, error messages, cassette, 1525, MPS-801, 1526, screen codes, Kernal ROM, sprites, color, sound, conversion charts, Pokes & Peeks, etc. Spiral bound.

All Three Items For: **\$15.95**

PHONE BOOK/POSTAL CLERK



A must for small businesses, clubs, schools, or individuals.

2,500 + ENTRIES

Menu-driven, compatible with all printers. Auto save entries and changes. Sorts and prints phone book or address labels by name, city, state, ZIP code, or group. Eight user-definable mail lists in one program. Keep groups, friends, clubs, Christmas lists, etc. all separate.

C-128 Compatible **\$24.95**

\$-SAVER SWITCH

Use the \$-Saver Switch to connect two computers to one printer, or one disk drive. Better yet, use only one drive and one printer for two computers. A flip of the switch changes the device from one use to the other. Save dollars where more than one computer needs to access the same device. Plugs in — no alterations or extras.

V-20, C-64, C-16,

Plus 4, C-128 **\$29.95**

VALUE

WHAT IS VALUE

val-lue (vál yoo) that quality of a thing which makes it more or less desirable, useful, etc.

Value is something we constantly strive for in our role as consumers. But what is it really? Is it price? Sure, price is part of it. What about quality? Quality definitely plays an important part. Maybe, **good quality at a good price?** This is a step closer, but still not quite all. Useful? Of course. What good is quality, even at a good price, if you don't have a use for? So then let's say, "Value is: A useful, quality product at a good price."

THE GOAL

Software Value: Useful, quality software at a fair price.

THE PROBLEM

Every computer owner that progresses beyond the early stages, soon begins to add to his collection of programs. As soon as a disk drive is added, this collection literally explodes. Disks are like rabbits; start with a couple and soon they're everywhere! Since a disk can hold a bunch of programs, 10 or 20 disks can mean several hundred programs.

HELP!! To keep all those programs in order you need help. Programs to help you manage your program collection are called utilities.

A utility is a program that fills a specific need. Utilities usually concentrate more on getting a job done well than on being flashy. A collection of utilities is usually one of the first things almost every computer owner starts.

No matter what the main interest is (music, graphics, games, writing programs, etc.) all owners have the same basic needs (move files, copy programs, backup disks, etc.) to maintain their program library.

THE PLAN

We wanted to assemble a collection of really good programs that would simplify maintaining your program library. Programs to cover every phase of this job. A collection that would serve as a solid foundation for anyone just starting their utilities collection, but also allow many people to improve the quality of the programs currently used for these jobs.

We also wanted to price the collection so that even if you only used 1 or 2 of the programs, you would still get your money's worth.

THE PROGRAMS

FAST FINDER: A fast efficient way to maintain a current listing of all your programs.

- Alphabetical listing of all programs in your program library.
- Automatically adds the programs you choose from a disk. No manual entry of programs required.
- Assign your own 3 digit ID number, or use the disk's own ID.
- Find a program FAST. The first 2 or 3 letters of a name gets you a list of programs that match those letters. Your programs will be included. Average time - 1 second.
- List all programs with the same disk ID.
- List all programs to either screen or printer.
- Printed list is 3 columns wide. A few pages for a lot of programs.
- Add names from disk or from keyboard. Keyboard entry allows for adding Commercial disks that have altered directories that can't be listed. Also handy when you add 1 or 2 names to an already cataloged disk.
- Delete single programs, or all programs with a certain ID.
- Each list holds 1000 entries. Up to 5 lists available on 1 disk.

A program that will be of real use for anyone who uses a disk drive and owns more than a few disks.

BULLET COPY: A 4 minute disk copier that copies the whole disk in only 3 passes, using only 1 1541 disk drive, initializes as it copies. This program will save you a LOT of time making backup copies.

HAPPY HOUSEKEEPER: Makes moving programs and files from place to place a real snap. Move 1 program or a bunch. Large buffer. Make multiple copies without having to read source disk each time. Takes the drudgery out of disk library maintenance.

ENVELOPE DIRECTORY: Prints the directory inside a pattern that fits in the disk jacket. Makes it easy to keep the directory for each disk where it belongs, with the disk.

DISK MAP: Prints the directory giving Program name, size, load address, ending address and Track and Sector where program starts. Output to either printer or screen.

DIRECTORY DOCTOR: Loads a directory from a disk, re-arranges the order of the programs, then writes the directory back to the disk in this new order.

All these, plus several other programs will make this a disk you will reach for often. It will save you many hours to use for more important things.

THE NAME

The collection: C-64 UTILITY CITY

THE PRICE

Less than the price of a single program! We think software prices are too high. Hardware prices have fallen sharply in the last 2 years; software prices need to do the same. We have eliminated all the middlemen. By buying direct from us, we can increase the value even more. We even pay the postage!

All these programs on one disk, delivered to your door for only \$19.95.

WHERE?

Send ONLY \$19.95
(includes postage) to:

VALUE PLUS SOFTWARE
P.O. BOX 731
SPRINGFIELD, MO 65801

Please send _____ copies of
C-64 UTILITY CITY
@ \$19.95 each (includes postage).

VALUE PLUS SOFTWARE
P.O. BOX 731
SPRINGFIELD, MO 65801

NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____



INFO RETAILERS BY STATE.

Also available at: **Waldenbooks, B. Dalton's, Coles, Games 'N' Gadgets, Electronics Boutique, and better newsstands.**

JACK'S HOBBY SHOP	AR	JACKSONVILLE	501 982-6836	SOFTWARE CITY COMPUTER BASE NEW AGE ELECTRONICS	SARASOTA TAMPA ST. PETERSBURG	813 923 4040 813 831 4763 813 323 8389	
COPPERSTATE BUSINESS SYSTEMS COMPUTER HORIZONS L.L.R. ENTERPRISES	AZ	PHOENIX PHOENIX TUCSON	602 244 9391 602 744 3432	BFJ ENTERPRISES	GA	ROSWELL	404 998 8251
WISE OWL PUBLICATIONS DISCOUNT COMPUTER STATION, INC TECHNITRONICS SERVICENTER OMNI UNLIMITED KJ COMPUTERS COMSOFT EMPIRE SOFTWARE ASSOCIATES R&R SOFTWARE GARY R. BELL 20/64 SOFTWARE CENTER COMPUTER OUTLET COMPUTER JUNCTION INTEGRATED SYSTEMS ACV DATA SERVICES P.E.C. COMSTAR ALPHA COMPUTER EQUIPMENT CO. HT ELECTRONICS DATAPHILE VALLEY COMPUTER CLUB SAWYER'S NEWS INC. COAST BULLETIN BOARD CANDY COMPUTER FILCO COMPUTER CENTER SOFTWARE CENTRE INTERNATIONAL BARTON SOFTWARE	CA	TORRANCE LONG BEACH SOUTH PASADENA PASADENA GRANADA HILLS SUN VALLEY UPLAND CHULA VISTA SANTEE SAN DIEGO VICTORVILLE GARDEN GROVE ORANGE ANAHEIM SANTA BARBARA LANCASTER SUNNYVALE WATSONVILLE TURLOCK SANTA ROSA FORT BRAGG ELK GROVE SACRAMENTO SACRAMENTO MARYSVILLE	213 375-6258 213 595 0899 818 441 0103 818 795 6664 213 366 5305 818 768 5017 619 426 7011 619 562 7562 619-282-6200 619 245 3622 714 539 6555 714 634 1032 714 978 6601 805 964 4660 805 942 2626 408 737 0900 408 724 3322 209 667 1533 707 542 1311 707 964 7114 916 685 7247 916 484-1507 916 925 3337 916 741 2455	GRONERT COMPUTERS LTD. QUICKSILVER SOFTWARE IOWA BOOK & SUPPLY SOFTWARE CITY SOFTWARE PLUS DIGITAL WORLD COMPUTERS N SOFTWARE SOFTWARE PLUS (WEST) DOWN HOME PUBLISHING FAMILY SOFTWARE 20/20 VIDEO A BYTE BETTER JFE COMPUTERS R/D COMPUTER SALES & SERVICE THE MEMORY EXPANSION MICRO-FACE	IA	DES MOINES SIOUX CITY IOWA CITY DAVENPORT	515 255 0618 712-258-2018 319 337 4188 319 386 2345
CO	CO	WESTMINSTER WHEAT RIDGE LAKEWOOD BOULDER FORT COLLINS PUEBLO	303 430 8708 303 431 1511 303 444 7300 303 482 0197 303 544 4432	IN	GREEN MEADOW VIDEO IMPAIR POWER SWING COMPUTERWARE THE COMPUTER STATEMENT, INC. VONS COMPUTERS	GREENFIELD INDIANAPOLIS LAPORTE ELKHART WEST LAFAYETTE	317 462 2996 317 353 9947 219 362 7652 219 295 0197 317 743 4041
COMPUTERAMA SOFTWARE KINGDOM SOFTWARE CITY DERRIC ELECTRONICS VIDEO CONNECTION SOFTOWN INC. PROGRAMS PLUS	CT	VERNON EAST HARTFORD ORANGE HAMDEN DANBURY DANBURY WILTON	203 872 2667 203 569 2244 203 799 2119 203 248 7227 203 797 1940 203 797 8080 203 762 7587	KS	PARSONS'S COMPUTERS	PARSONS	316 421 9210
NEW ERA COMPUTERS A A COMPUTER EXCHANGE GULF COAST COMPUTER EXCHANGE RANDOM ACCESS COMPUTERS FLORIDA BOOK STORE/ COMPUTER C THE COMMODORE COMPUTER SHOP MICRO DATA SYSTEMS CIRCADIAN SOFTWARE COMPUTER SPECIALTIES INC. SOFTWARE FORUM <1> COMPUTER IMAGE DATA BASE SUNSHINE SOFTWARE AC&M SERVICE TRU-VALU DRUGS #2 ALL AMERICAN ELECTRONICS MICROCOMPUTER CENTER	FL	ORMOND BEACH JACKSONVILLE PANAMA CITY FORT WALTON BEACH GAINESVILLE OCALA ORLANDO MELBOURNE MELBOURNE CORAL GABLES MIAMI DAVIE FT. LAUDERDALE WEST PALM BEACH WEST PALM BEACH BROOKSVILLE CLEARWATER	904 673 3475 904 388 6520 904 785 6441 904 862 7763 904 351 8581 305 896 6797 305 676 5822 305 725 6574 305 271 1224 305 474 3355 305 493 5047 305 582 7327 305 588 6232 904 796 2909 813 531 2614	MD	SLIPPED DISK SLIPPED DISK COMPUTER PROGRAMS (SOFTWARE CI CHELSEA SOFTWARE MICROWORLD COMPUTER YE OLDE COMPUTER SHOPPE EDGE CONNECTOR IO SOFTWARE HOME VIDEO OUTLET (HVO) THE SOFT WAREHOUSE COMPUTERS TODAY THE 8 BIT CORNER SOFTWARE CAROUSEL SOFTWARE PLUS & ATTN/B. PALMER CADILLAC NEWSCENTER	WALDORF COLLEGE PARK ROCKVILLE ROCKVILLE SALES COMPUCATS	301 843 1005 301 345 0568 301 424 6053 301 946 1564 301 272 4195
MI	MI	(2) CLARKSTON (1) MADISON HEIGHTS STERLING HEIGHTS ANN ARBOR LIVONIA YPSILANTI CLIO FLINT LANSING KALAMAZOO HOLLAND MUSKEGON GRAND RAPIDS GRAND RAPIDS CADILLAC	313-625-7455 313-583-9803 313 978 3701 313-996-0001 313 427 0102 313 482 6382 313 686 1070 313 742 3566 517 321 8958 344-0276 616 399 8310 616 722 0050 616 361 1381 616 942 7780 616 775 3151				

SOFTWARE CENTRE	MN	ROSEVILLE	612 631 3580	8^2	MT. HOLLY SPRINGS	717 486 3274
COMPUTER STUFF		MINNEAPOLIS	612 825 2674	SHADETREE SOFTWARE	WILLIAMSPORT	717 494-0650
Q-SOFT		MINNEAPOLIS	612 922 5808	SOFTWARE CITY	WHITEHALL	215 434-3060
	MO	WINCHESTER	314 394 0390	SOFTWARE UNLIMITED	LEVITTOWN	215 493 1372
MICRONOMICS CORP.		ST. LOUIS	314 727 3420	SOME HOLE IN THE WALL	PHILADELPHIA	215 533 1211
SOFTWARE TO GO		ST. LOUIS	314 361 8825	PERIPHERALS COMPUTERS & SUPPLI	MT. PENN	215 779 0522
SYSTEMS PLUS		O'FALLON	314 272 2462			
THOSE DAHN THINGS		ST. JOSEPH	816 232 4778	RI		
2SYNTAX ERROR		SPRINGFIELD	417 887 7373	SOFTWARE CONNECTIONS	WARWICK	401 738 3430
ASSOCIATED COMPUTER SERVICES				ICS	JOHNSTON	401 273 1001
	NC				SC	
TRIAD COMPUTERS		WINSTON-SALEM	919 765 0433	CONCURRENT TECHNOLOGIES CORP.	TRAVELERS REST	803 834 9035
TRIANGLE DATA SYSTEMS		CARRBORO	919 929 4593			
C2 BOOKSELLER		HICKORY	704 322 6560	VIDEO HOME LIBRARY	OAK RIDGE	615 482 3893
	NE				TX	
MICRO CONNECTION INC.		OMAHA	402 331 7933	VIDEOLAND	CARROLLTON	214 242 9505
	NJ			C R SOFTWARE	MESQUITE	214 681 9595
SOFTWARE CITY		MIDLAND PARK	201 447-9794	REGENCY EDUCATIONAL SYSTEMS	DALLAS	214 931 5787
WAYNE COMPUTER STORE		WAYNE	201 628-7318	PROFESSIONAL COMPUTER ASSOC.	WACO	817 662 1114
SOFTWARE CENTER		EAST BRUNSWICK		MICRO SEARCH	HOUSTON	713 988 2818
	NM			COLONEL VIDEO	HOUSTON	713 486 5288
PAGE ONE SOFTWARE		ALBUQUERQUE	505 294 3054	COLONEL VIDEO	HOUSTON	713 444 1694
ACADEMY COMPUTERS		ALBUQUERQUE	505-296-4886	SMALLCOMP SYSTEMS	FRIENDSWOOD	713 482 0890
	NV			THE COMPUTER EXPERIENCE	SAN ANTONIO	512 340 2901
IC ELECTRONICS		LAS VEGAS	702 870 7901			
SOFT-RENT		LAS VEGAS	702 796-1377	VA		
	NY			FAMILY COMPUTER CENTER	FAIRFAX	703 385 2758
LEIGH'S COMPUTERS		NEW YORK	212 879 6257	VIRGINIA MICRO SYSTEMS	WOODBRIDGE	703 491-6502
SOFTWARE LINK, INC.		WHITE PLAINS	914 683 2512	CRYSTAL VIDEO	ARLINGTON	703 486 3388
MEIZNER BUSINESS MACHINES		PELHAM	212 671 7400	METRO VIDEO & ELECTRONICS	ARLINGTON	703 525 4460
SOFTWARE CITY		SPRING VALLEY	914 352-3444	SOFTWARE PLUS	RICHMOND	804 747 7283
VIDEO COMPUTER BIN		BROOKLYN	718 241 1993	SOFTWARE CITY	RICHMOND	804 320 2244
THE G.A.S. STORE		FLUSHING	212 357 5522			
PASTIMES		FOREST HILLS	718 263 4747	WA		
GREAT ESCAPES COMPUTER CENTER		HOLBROOK	516 567 0716	SOFTWARE CITY	BELLEVUE	206 451 1141
COMPUTER PALACE		PATCHOGUE	516 654 8573	MEDIA MAN	LYNNWOOD	206 775 8544
SOFTWARE CITY		ALBANY	315 445 2577	DISCOUNT COMPUTER SOFTWARE	SEATTLE	206 431-0180
SOFTWARE & SUCH		SCOTIA	518 399 7573	SOFTWARE VIDEO & AUDIO	EVERETT	206 252 7633
DUANE'S TOYLAND		SCHENECTADY	518	COM-SOFT	EVERETT	206 338 0934
VIDEO COMPUTER CENTER		ROME	315 336 0266	BELLINGHAM COMPUTER CENTER	BELLINGHAM	
THE SOFTWARE-HOUSE		FAIRPORT	716 223 7658	CENTSABLE SOFTWARE	EATONVILLE	206 832 3900
HOME COMPUTER & SOFTWARE CENTE		ROCHESTER	716 647 2328	NYBBLES & BYTES	TACOMA	206 475 5938
	OH			CENTRALIA COMPUTER CENTER	CENTRALIA	206 330 2225
EARTHRISE MICRO SYSTEMS INC.		DELAWARE	614 868 1100	SOFTWARE EXPRESS	BATTLEGROUND	206 687 5205
SOFTWARE CITY		COLUMBUS	614 888 6660	COLVILLE COMPUTER CONCEPTS	COLVILLE	509 684-6676
COMPUTER CORNER		LORAIN	216 244 2992			
COMPUTER SITE		STRONGSVILLE	216 572 3580	WI		
VIDEO & COMPUTER PLACE		MEDINA	216 722 0770	STARTING COMPUTERS	BROOKFIELD	
	OK			TMW SOFTWARE	WAUSAU	715 845 7638
SECOND HAND SOFTWARE		OKLAHOMA CITY	405 946 2888	RIVER CITY SOFTWARE	LACROSSE	608 782 5540
COMPUTER SOFTWARE CENTER		OKLAHOMA CITY	405-632-6007			
TEACHER'S PET		MIAMI	918 542 6198	CANADA		
	OR			OWENS & SONS CASH REGISTER	VICTORIA	BC
SOFTWARE PLUS		OREGON CITY	503 657 5215	ATLANTIC NEWS	HALIFAX	NS
COMPUTRON		PORTLAND	503 224 2220	KOBETEK SYSTEMS LTD.	NEW MINAS	NS
SUPERSOFT		SALEM	503 581-5141	ROMARO ENTERPRISES INT'L	MISSISSAUGA	ON 416 820 5235
SOFTWARE EXPRESS		EUGENE	503 342 1298	R & M SOFTWARE	ST. THOMAS	ON 519 631 8071
BLIND GEORGE'S NEWSSTAND		GRANT'S PASS	503 476 3463			
	PA					
SOFTWARE CITY		BETHEL PARK	412 854 1777			
DATA SOFTIQUE COMPUTERWARE		PITTSBURGH	412 327 1850			
ABACUS COMPUTER SHOPPE		LEBANON	717 272 7115			
SHEARER DISCOUNT RADIO SALES		MECHANICSBURG	717 766 5185			
THE FLOPPY DISK		MECHANICSBURG	717 697 6813			

If your dealer doesn't carry
please show 'em a copy & tell them to
call us. We'll be glad to add them
to our growing list!

INFO

INFO



Aquarian Software

P.O. Box 22184
Portland, OR 97222

To Order, Call: (503) 654-2641

VISA and MasterCard Accepted

Add \$3.00 Shipping and Handling Per Order
Dealer Inquiries Welcomed!



Modem Master

The Fastest Commodore BBS Available!

- Works with 1541 or MSD Dual Drive
- 300/1200 Baud Operation
- New Punter File Transfer Protocol
- Fully Menu Driven
- Over 25 Commands
- Public Message Base
- Private E-Mail Base
- E-Mail Check at Sign-On
- Sub-Directories for File Transfer
- 250 User Capacity
- Accurate Clock/Calendar
- Printer Output
- Information Files
- "Old" E-Mail Deleted After One Week
- User Survey/Poll
- Set Up in Only 10 Minutes!

Only \$29.95

Omitem Terminal

- Fully supports the new 1660 Modem 300!
- Punter protocol — upload & download — 300/1200 baud
- Ten programmable function keys
- 15 number phone directory
- 20k receive buffer
- Tone or pulse dialing
- Auto dial/re-dial
- Half/full duplex

\$19.95

COMPUTER TALK

Guides the novice through the maze of buzz words and mysteries of telecommunications. Explains commonly used terms, advises on selection of both hardware and software. Introduces you to both BBS's and national networks.

Only \$8.00

Includes PlayNET demo disk with two FREE hours on-line!

Disk-Lock V2.1

At Last! A professional copy protection system is available to YOU. Now you can protect your programs from most copy programs!

- Disk-Lock is Designed to Prevent Full Disk Copies
- Stops Over 90% of All Copiers
- Offers Multiple Protection Schemes
- Place Protection on Any Track From 1 to 40!
- Fully Menu Driven

Only \$39.95

B.E.S.T.

At last! A truly professional accounting system for the Commodore 64 that is easy to use!

General Ledger.....	\$69.95
Accounts Payable.....	\$59.95
Accounts Receivable.....	\$59.95
Inventory.....	\$69.95

*Big Computer Power
At Small Computer Prices!!*

Call For Full Details

Thriller Series

All six thrilling adventures now together on one disk! Plus — as a bonus — Three Hours To Live! These are full-length machine language text adventures that will take you weeks to complete. They feature full-sentence input (not just two words!) with color and sound.

Includes:

- Night of the Walking Dead
- Perils of Darkest Africa
- Revenge of The Moon Goddess
- Shipwrecked!
- Son of Ali Baba
- Frankenstein's Legacy
- Plus Three Hours To Live

**Only \$24.95
For All SEVEN!**

Nova Decoder 64

Version 3.0

A 6502/6510 Disassembler

Designed for the Commodore User

A MUST for anyone just learning Machine Language.

A TREAT for those examining the operation of the C-64.

A BLESSING to machine language programmers trying to de-bug their programs.

- ★ Choose Screen or Printer Options
- ★ Addresses Printed in Either Hex or Decimal
- ★ Complete Calculations of Branch Commands
- ★ Brief Explanations of Each Command Encountered
- ★ Generates Tables of Zero Page Addresses Used, Branch Addresses, All Jump Routines, and More ...

Only \$19.95

Only \$24.95

A Survival Guide To The 1541 Disk Drive

If you are bewildered by the 1541 User's Manual, then help is here at last! In-depth explanations of your disk drive and how to use it, clearly explained in simple, easy-to-understand terms! A real help!

Order Today! Only \$5.00

TURBO CALC/64

A Great Beginner's Spreadsheet At an UNBELIEVABLE Price!

- 100% Memory Resident
- 100% Machine Code and P-Code
- 100% Menu Driven
- Over 13 K RAM for Data
- Large Matrix, 100 Rows by 26 Columns
- On-Line Help Screens
- On-Screen Menu at All Times
- Full Printer Support
- Built-in Functions (SUM, AVG, MIN, MAX)

At last, a powerful, yet affordable spreadsheet!

ONLY \$17.95

- ★ Written 100% in machine language
- ★ Assembles 17K source code in 5 seconds!
- ★ Co-resident editor assembler monitor
- ★ Compatible with HES MON
- ★ Slow-motion code analyzer
- ★ Technical assistance number

"I would have to recommend the IEA Instant Editor Assembler, the BEST VALUE-FOR-PRICE development package on the market!"

*Jim Gracely
Technical Editor
Commodore Microcomputer Magazine*

"IEA is a nice, simple assembler, good for beginners at an UNBELIEVABLE PRICE!"

Jim Butterfield

"...Should be called the POOR MAN'S MERLIN — a great assembler, and you can't beat the price."

William B. Sanders

Author of Assembly Language For

Kids

Now Only \$17.95

SPECIAL OFFER
\$7.00
(NORMALLY \$19.95)

Seeing Is Believing

"I don't have enough time or space to list all the good points!" -- **Noland Brown, MIDNITE SOFTWARE GAZETTE**

"This disk is fantastic!" -- **Tom Lynch, THE USERS PORT**

"Why all the enthusiasm? Because **COMAL** is a composite of the best features of the most popular programming languages... the familiarity of BASIC commands with the structural programming environment of Pascal and the turtle graphics of Logo." -- **Mark Brown, INFO 64**

"**COMAL** was just what I was looking for." -- **Colin Thompson, RUN**

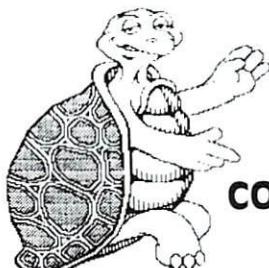
Seeing **is** Believing. Take a look at what **COMAL** has to offer: the complete **COMAL 0.14 System** for Commodore 64™ includes the **Tutorial Disk*** (*teaches you the fundamentals of COMAL*), plus the **Auto-Run DEMO Disk*** (*demonstrates 26 COMAL programs including games, graphics, sprites and sounds*), all for just **\$7.00!**

You can add the reference book, **COMAL from A to Z**, for just **\$4.00 more**.

\$7 or \$11 -- either way you're a winner!

"Everybody who gets it, likes it! (I'll guarantee it.)" -- **Len Lindsay, President, COMAL Users Group**

Call TOLL-FREE: 1-800-356-5324 ext. 1307
VISA or MasterCard Orders ONLY.
Questions and information must call our
Info Line: 608-222-4432.
All orders prepaid only - no C.O.D.



Send check or money order in US Dollars to:

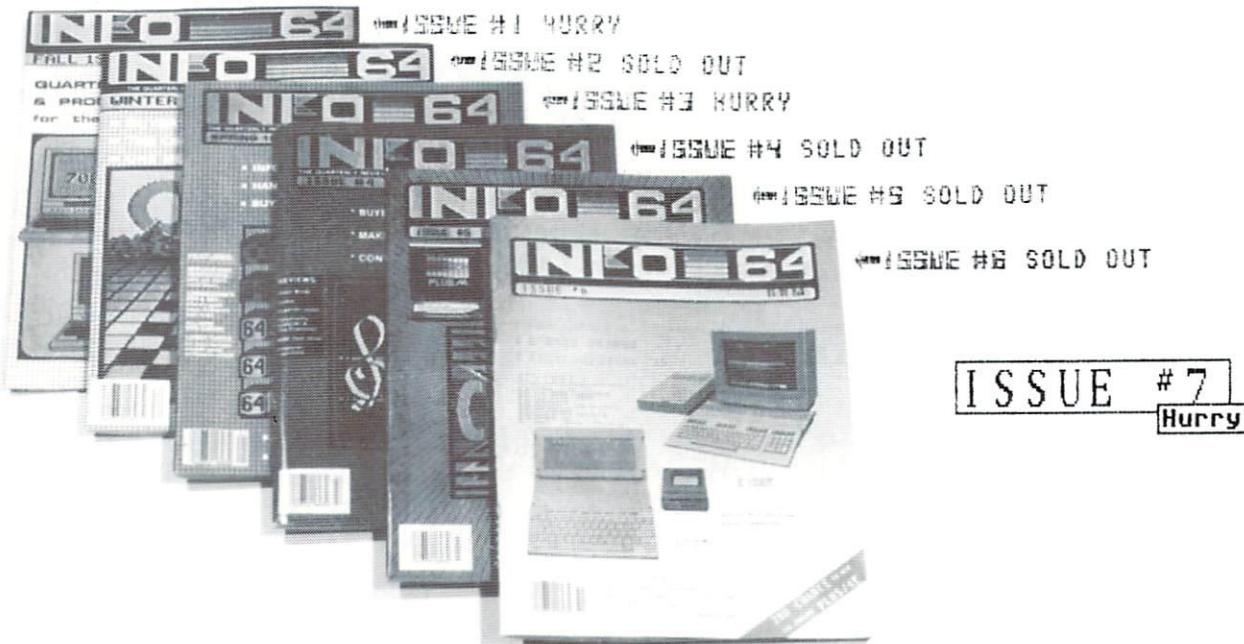
COMAL USERS GROUP, U.S.A., LIMITED

5501 Groveland Ter., Madison, WI 53716

phone: (608) 222-4432

*Programs will come on 2 disks or 1 double sided disk -- each disk includes COMAL.
Commodore 64 is a trademark of Commodore Electronics

BACK ISSUES: while supplies last



FOR INFO-MANIACS ONLY:

Note: a very limited quantity of complete sets of Issues #1 thru #6 have been set aside for collectors. These sets are in excellent condition. Collectors' Sets will be shipped on a first-come, first served basis until gone. These sets are shipped UPS (freight paid by INFO) within 48 hours of receipt of your order. No phone orders please.

Back Issues are \$4.50 each.
Collector's set \$50.00 each.

ENCLOSE CHECK OR MONEY ORDER ONLY ----- SEND TO:

- Premiere Issue (#1)
- Issue #3
- Issue #7
- Collectors' Set (#1-#6)

INFO PUBLICATIONS
P.O. BOX 2300
IOWA CITY, IA 52244

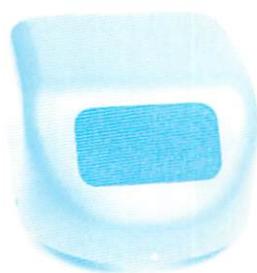
Name _____
Add. _____

c/st/zip _____

INFO

YOU'VE GOT GOOD QUESTIONS:

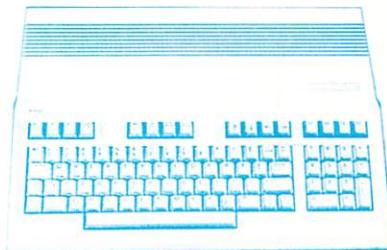
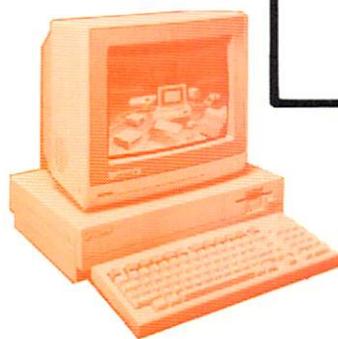
What
is it??



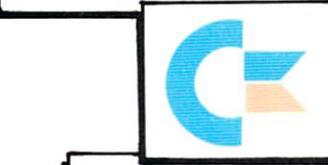
Which one is
best for me??



What's New??



Is this
a joke?



How good
is it??

INFO HAS GOOD ANSWERS-
six times a year!



Please enter my subscription to:

INFO

the USEFUL
guide to
COMMODORE
COMPUTING

6 ISSUES	\$18.00	(*1YR)
12 ISSUES	\$32.00	(*2YR)
18 ISSUES	\$44.00	(*3YR)

* BASED ON BI-MONTHLY FREQUENCY.
FREQUENCY SUBJECT TO CHANGE.

(check centerfold for envelope
OR USE THIS COUPON, NOT BOTH.)

(United States & Canada ONLY.)

(U.S. funds ONLY.)

New Subscriber.

Renewal

NAME _____

ADD. _____

CTY _____ ST _____ ZIP _____

MAIL CHECK OR MONEY ORDER ONLY TO

INFO

PUBLICATIONS
P.O. Box 2300
Iowa City, IA 52244

(All subscriptions begin with the
issue following the one on sale
when we receive your order.)

**COMPLETELY MENU DRIVEN . VERY USER FRIENDLY
BETTER INTEGRATION THAN LOTUS 1-2-3 * OR SYMPHONY*
VIRTUAL DISK OPERATION**

KING MICROWARE'S FULLY INTEGRATED

RHAPSODY

- 1 DATABASE MANAGER**
- 2 WORD PROCESSING**
- 3 SPELLING CHECKER**
- 4 SPREADSHEET / GRAPHICS**

64

COPYRIGHT 1985 BY BRIAN MORROW

All You'll Ever Need !

Send check or money order to:

Suite 210, 5950 Côte des Neiges
Montréal, Québec H3S 1Z6
Tel.: (514) 737-9335



\$64.95

DEALER INQUIRIES INVITED

STARPOINT SOFTWARE proudly presents

ISEPIC

• + • + • + • + • + • + • = •

[say Icepick], a revolutionary new concept in software de-protection for the Commodore 64. ISEPIC is not a disk duplication system, but an extraordinary hardware/software combination that actually bypasses any disk protection scheme. ISEPIC captures and saves the protected program as it runs in the 64's memory, this "snapshot" becomes accessible to the user for complete inspection and alteration. From this image, ISEPIC can automatically create a compact, auto-booting, fast-loading file which is completely unprotected and self contained.

- ☆ Copies ALL memory-resident software
- ☆ ISEPIC'd programs load many times faster than originals
- ☆ ISEPIC is invisible to software—cannot be defeated
- ☆ Eliminates drive "knock" due to antique protection schemes—adds years of life to your drive
- ☆ Automatically "cracks" protected programs into single, auto-booting, super-fast loading files
- ☆ Place multiple programs on a single diskette
- ☆ Create auto-booting, fast-loading versions of your own programs
- ☆ Cracked programs are completely self-contained and run independently of the ISEPIC adapter
- ☆ Copies software with a flick of a switch
- ☆ ISEPIC comes complete and ready-to-run, just plug into expansion port
- ☆ Programs cracked by ISEPIC may be used on MSD or 4040 drives as well as hard disks regardless of original protection schemes

When ordering by mail:

- * \$64.95 + 3.00 shipping
- * \$64.95 + 4.00 COD orders
- * Calif. residents add 6% sales tax
- * VISA or Mastercard accepted
- * Shipping out of USA \$6.00

Please allow 4-6 weeks for delivery.

... WRITE OR PHONE ...

STARPOINT SOFTWARE
Star Route 10 Gazelle, CA 96034 [916] 435-2371

ADVERTISER INDEX

Academy Software.....	143
American Computer Warehouse.....	141
Aquarian Software.....	150
Artificial Intelligence Group.....	10
Basix.....	C4
Cardinal Software.....	142
Central Point Software.....	137
Clockwork Computers Inc.....	136
Comal Users Group.....	143
Comal Users Group.....	151
Compusoft.....	139
Computer Outlet.....	137
Concept 1.....	140
CGRS Microtech.....	138
Dynamax.....	139
DJ Software.....	142
Info Publications (ERG-BOARD).....	156
Info Publications subscriptions....	153
Info Publications back issues.....	152
Insta Ship.....	12
King Microware.....	154
M & M Software.....	142
Megasoft.....	C3
Microcomscribe.....	138
Microvations.....	143
Micro-W.....	C2
Mimic Systems.....	1
NiteOwl.....	138
Papertail.....	140
Parabola.....	137
Performance Micro Products.....	136
Progressive Peripherals.....	32
Protecto Enterprises.....	144
Protecto Enterprises.....	145
Public Domain.....	140
Quantum Software.....	143
Signal Computer Consultants.....	141
Starpoint Software.....	155
Synthware.....	10
SMA.....	11
SMA.....	136
T.I.E.....	31
UltraByte.....	138
Value Plus.....	147
Value-Soft.....	146
Wallstreet.....	140
Xetec.....	10

THE FANTASTIC

ERGEBORD™



THE PROBLEM

SEND ME CARD-SETS e 5.95

send me ERGEBORDS e 17.95 each.

Enclose CHECK or MONEY ORDER only.

Payable to:

INFO

PO Box 2300
Iowa City, IA 52244

name

address

THE ERGEBORD SOLUTION

→ ERGonomically designed to improve comfort & speed !!

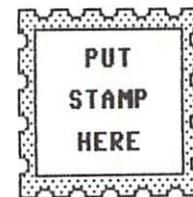
→ Adds class and utility to your C-64 computer (fits the VIC too)!

→ Bronze-smoke acrylic is extremely durable and sharp-looking !

→ Comes with 3 popular slide-in software reference cards !

→ FREE additional reference cards (12 per yr.) in regular issues of INFO !

→ IDEAL GIFT !!



PO BOX 2300
IOWA CITY, IA 52244

INFO READER SURVEY

Here's your chance to make your views known on a variety of issues including Commodore, INFO, piracy, & product preferences! Remove this centerfold, check off your answers, include any comments, and fasten edges with tape or staples (if you want to enclose a subscription envelope, contest entry, or coupon, make sure the centerfold is sealed tight- we don't want to lose anything!) Results of this survey will appear in a later issue, and applicable items will be presented in a report to Commodore. Don't forget the stamp!

(01) List the types and makes of computer **HARDWARE** you **OWN** or **PLAN TO BUY** in the next year:

OWN PLAN TO BUY

! !

[] [] Computer(s)..... .

[] [] Disk Drive(s)..... .

[] [] Monitor(s)..... .

[] [] Printer(s)..... .

[] [] Printer interface(s)..... .

[] [] Other hardware..... .

(02) What **SOFTWARE** are you planning to buy
(10=most / 1=least / 0=none)

[] Recreational	[] Accounting
[] Telecomputing	[] Utilities/Languages
[] Wordprocessing	[] Music
[] Database management	[] Graphics
[] Spreadsheet	[] Educational

(03) Where do your software **dollars** & computing **time** go?
(10=most / 1=least / 0=none)

\$! TIME	\$! TIME
[] [] Recreational	[] [] Accounting
[] [] Telecomputing	[] [] Utils./Languages
[] [] Wordprocessing	[] [] Music
[] [] Database mngmnt.	[] [] Graphics
[] [] Spreadsheet	[] [] Educational

(04) Which, if any, of the following **systems** do you plan to purchase in the next year (indicate multiple units with appropriate number):

[] Commodore C64	[] IBM PC
[] Commodore C128	[] IBM PC AT
[] Commodore Amiga	[] IBM compatible
[] Apple IIe	[] Tandy
[] Apple IIC	[] Other
[] Apple Macintosh	[] Don't know
[] Atari ST	[] None

(05) About how much did you spend on computer products **LAST** year? \$ _____

(06) About how much will you spend on computer products **THIS** year? \$ _____

(07) For the following types of products, please name the one(s) you own or use. After each product, put a number (from 1 to 10) in parenthesis representing your degree of satisfaction with the product (10=extremely satisfied).

*** SOFTWARE ***

Wordprocessing : _____ ()

Spreadsheet : _____ ()

Database Mngmnt. : _____ ()

Home Accounting : _____ ()

Bus. Accounting : _____ ()

Graphics package : _____ ()

Music package : _____ ()

Terminal package : _____ ()

Language : _____ ()

Utility : _____ ()

Copy System : _____ ()

Educational : _____ ()

Games (10 max.) : _____ ()

_____ () _____ ()

_____ () _____ ()

_____ () _____ ()

_____ () _____ ()

_____ () _____ ()

*** Hardware, Misc. ***

Printer (Matrix) : _____ ()

Printer (Daisy) : _____ ()

Printer Interface : _____ ()

Monitor : _____ ()

Speed-Up product : _____ ()

extra disk drives : _____ ()

Graphics input : _____ ()

Joystick : _____ ()

(08) How would you rate the following publications?
(10=most / 1=least)

Cares About Readers

	! Gives Money's Worth	! Enjoyable to Read	! Up to Date	! Informed	! Useful	! Honest
S =subscribe						
P =plan to subscribe						
O =often buy						
B =buy sometimes						
X =used to buy or sub.						
!						
[] AHJOY.....	[]	[]	[]	[]	[]	[]
[] COMMODORE.....	[]	[]	[]	[]	[]	[]
[] COMPUTE!.....	[]	[]	[]	[]	[]	[]
[] COMPUTE!'S GAZETTE	[]	[]	[]	[]	[]	[]
[] HOME COMPUTER.....	[]	[]	[]	[]	[]	[]
[] INFO.....	[]	[]	[]	[]	[]	[]
[] MIDNITE GAZETTE.....	[]	[]	[]	[]	[]	[]
[] POWERPLAY.....	[]	[]	[]	[]	[]	[]
[] RUN.....	[]	[]	[]	[]	[]	[]
[] THE GUIDE.....	[]	[]	[]	[]	[]	[]
[] TPUG MAGAZINE.....	[]	[]	[]	[]	[]	[]
[] TRANSACTOR.....	[]	[]	[]	[]	[]	[]

(9) How many OTHER people usually read your copy of INFO? _____.

(10) From your observations over the past year, how does the "New Commodore" stack up in the following areas (Rate each from 1 to 10, 10=best):

<input type="checkbox"/> Dealer support	<input type="checkbox"/> New hardware
<input type="checkbox"/> Customer support	<input type="checkbox"/> New software
<input type="checkbox"/> Advertising	<input type="checkbox"/> Overall image
<input type="checkbox"/> Keeps promises	<input type="checkbox"/> Innovation
<input type="checkbox"/> Listens to Users	<input type="checkbox"/> Product value
<input type="checkbox"/> Service	<input type="checkbox"/> Product reliability

(11) Has Commodore's choice to initially introduce the Amiga via traditionally IBM & Apple magazines and market outlets made you:

<input type="checkbox"/> Less likely to buy an Amiga? (why?)
<input type="checkbox"/> More likely to buy an Amiga? (why?)
No effect.

(12) Indicate the percentage of INFO's pages you would like devoted to the following MACHINES:

<input type="checkbox"/> C64	<input type="checkbox"/> C128
<input type="checkbox"/> Amiga	<input type="checkbox"/> C128 CP/M

(13) Indicate the percentage of INFO's pages you would like devoted to the following TOPICS:

<input type="checkbox"/> Industry News	<input type="checkbox"/> Education
<input type="checkbox"/> Editorial Opinion	<input type="checkbox"/> Hardware & Peripherals
<input type="checkbox"/> Games	<input type="checkbox"/> Languages & Programming
<input type="checkbox"/> Music	<input type="checkbox"/> Tutorials
<input type="checkbox"/> Graphics	<input type="checkbox"/> Robotics & Control
<input type="checkbox"/> Business	<input type="checkbox"/> Buyers' guides

(14) How would you like us to position advertising:

<input type="checkbox"/> Scattered thru-out (like most magazines do)
<input type="checkbox"/> Grouped together at the back of INFO (like a reference section)

(15) Would you:

<input type="checkbox"/> Read MORE ads if they were grouped together
<input type="checkbox"/> Read FEWER ads if they were grouped together
<input type="checkbox"/> Read most ads regardless of arrangement
<input type="checkbox"/> Read few ads regardless of arrangement

(16) Do you buy most of your computer products from:

<input type="checkbox"/> An Independent dealer
<input type="checkbox"/> A chain store
<input type="checkbox"/> Mail order

(17) Name & City of the nearest dealer that you do business with:

_____.

_____.

(18) Would you like to see the Product Roundup Issues:

<input type="checkbox"/> Once per year
<input type="checkbox"/> Twice per year (our current plan)
<input type="checkbox"/> Every issue

(19) Regarding Protection VS Piracy, check the statements you agree with:

<input type="checkbox"/> Software companies are justified in using any and all means to prevent copying of their products.
<input type="checkbox"/> Users are justified in using any and all means to make copies of software they have purchased.
<input type="checkbox"/> Professional pirates should be heavily prosecuted.
<input type="checkbox"/> Casual copying is like lending a paperback book to your friends and should be ignored.
<input type="checkbox"/> Casual copying is like casual auto-theft.
<input type="checkbox"/> Software companies should abandon protection as futile and counter-productive.
<input type="checkbox"/> Protection schemes only confound the honest consumer and don't stop the professional pirates.
<input type="checkbox"/> Most software companies would lose money and go out of business if it weren't for copy protection.
<input type="checkbox"/> Companies using protection schemes should be boycotted.
<input type="checkbox"/> New protection schemes are needed that respect the honest user while protecting the manufacturer.

(20) Please add any additional comments you may wish to voice concerning Commodore or INFO:

NAME _____.

ADD. _____.

_____.

CITY/STATE/ZIP _____.

AGE ____ . SEX ____ . OCCUPATION _____.

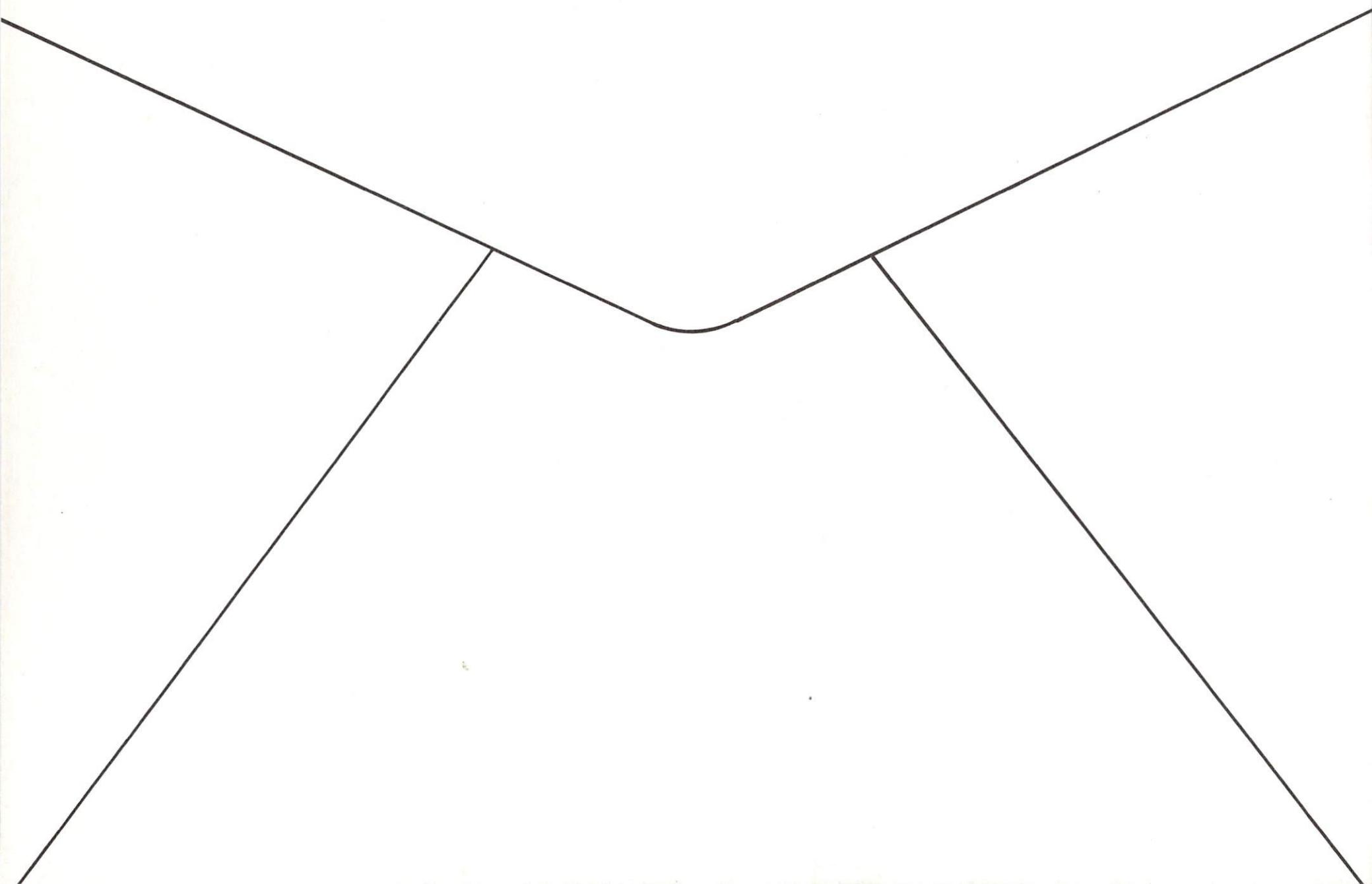
SCHOOLING _____.

ANNUAL INCOME _____.

READER SERVICE

("X"-out numbers for products you want more info on.)

001	002	003	004	005	006	007	008	009	010
011	012	013	014	015	016	017	018	019	020
021	022	023	024	025	026	027	028	029	030
031	032	033	034	035	036	037	038	039	040
041	042	043	044	045	046	047	048	049	050
051	052	053	054	055	056	057	058	059	060
061	062	063	064	065	066	067	068	069	070
071	072	073	074	075	076	077	078	079	080
081	082	083	084	085	086	087	088	089	090
091	092	093	094	095	096	097	098	099	100



COMMENTS:



INFO
P.O. BOX 2300
IOWA CITY, IA 52244

Please enter my subscription to:

INTRO

the **USEFUL** guide
to
COMMODORE
COMPUTING

<input type="checkbox"/>	6 ISSUES	\$16⁰⁰	(* 1YR You save \$ 3.60!)
<input type="checkbox"/>	12 ISSUES	\$32⁰⁰	(* 2YR You save \$11.20!)
<input type="checkbox"/>	18 ISSUES	\$44⁰⁰	(* 3YR You save \$20.80!)

* BASED ON BI-MONTHLY FREQUENCY.
FREQUENCY SUBJECT TO CHANGE.

ENCLOSE CHECK OR MONEY ORDER ONLY

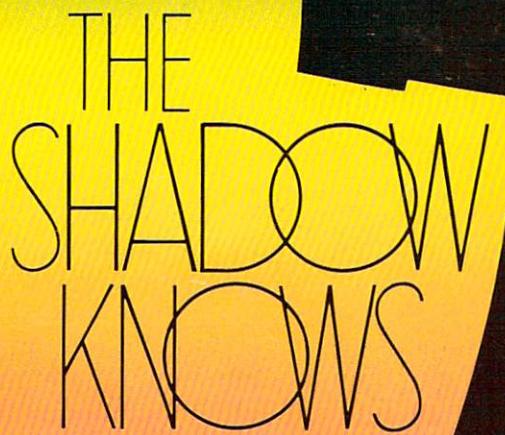
All subscriptions begin with the issue
following the issue on sale at the time
order is received.

NAME _____

ADD _____

CITY _____ ST _____ ZIP _____

NEW SUBSCRIBER
 RENEWAL



THE SHADOW KNOWS

99.9%

EFFECTIVE

Shadow is a new and revolutionary way to duplicate even your most protected software. It encompasses all the latest advances in software, as well as a highly sophisticated piece of hardware. This is absolutely **the best** utility available today. "It will even copy the other copy programs." Because of Shadow's unique abilities, we feel DOS protection is a thing of the past.

By the time you place your order we expect the Shadow to copy 100% — that's right, 100% — of **all** software available for the C-64.

Order by phone 24 hrs./7 days or send cashier's check/money order payable to Megasoft. Visa, MasterCard include card # and exp. date. Add \$3.50 shipping/handling for continental U.S., \$5.50 for UPS air. CODs add \$7.50. Canada add \$10.00 Other foreign orders add \$15.00 and remit certified U.S. funds only. Distributors invited and supported.

MegaSoft

LTD.

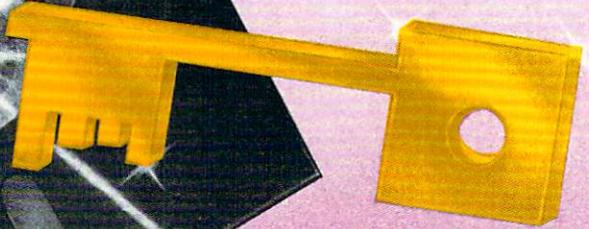
INTRODUCTORY
OFFER
\$89.95

P.O. Box 1080 Battle Ground, Washington 98604
Phone (206) 687-5116 • BBS 687-5205 After-Hours Computer-to-Computer Ordering

THE #1 BACKUP COPY SYSTEM
IS NOW BETTER THAN EVER!

DiskMaker™

Version 3.3



with

MasterKey™
Modules

NEW!
MODULAR
SYSTEM

THE AUTOMATIC DISK BACKUP SYSTEM FOR COMMODORE 64 SOFTWARE

- The LATEST breakthrough in copy technology!
- Copies NEW custom G.C.R. code protection
- Accesses & copies NEW no-sync data blocks!
- Now includes NEW long data-block logic
- Copies normal & PROTECTED data up to track 40
- 3 New IMPROVED copiers! Includes FAST Copier, VARI-SECTOR Copier, and AUTO-LOGIC Nibbler
- Actually copies a FULL disk in only 2.75 minutes!

- Includes one FREE Masterkey Module!
- Inexpensive MODULE releases keep you up-to-date
- MODULES available individually or by subscription
- Works with DiskMaker TOOLKIT and FAT-TRACK Kit
- Requires standard 1541 disk drive or SX-64
- Special version available for INDUS GT drive!
- PRODUCT SUPPORT tel. # & future module updates
- You've tried the rest, now get the BEST!!

THE FASTEST NIBBLE COPIER YOU CAN BUY!

ONLY
\$49.95
for copier system

To order CALL **805-687-1541 ext. 34**

Technical line 805-682-4000 ext. 33



Order by phone 24 hrs./7 days or send cashier's check/money order payable to BASIX. Visa, MasterCard & American Express include card # and exp. date. CA residents add 6% tax. Allow 2 weeks for clearance of personal and co. checks. Add \$3.50 shipping/handling for continental U.S., \$5.50 for UPS air. COD's shipped to 48 states only; add \$4.00. AK, HI, APO, FPO, add \$7.50. CANADA add \$10.00. Other Foreign orders add \$15.00, and remit certified U.S. funds only. No credit card orders from outside North America. Dealers & Distributors invited & supported.

DISKMAKER...THE ONLY COPY SYSTEM YOU'LL EVER NEED!



©1985

3463 State Street • Suite 1541L • Santa Barbara • CA 93105